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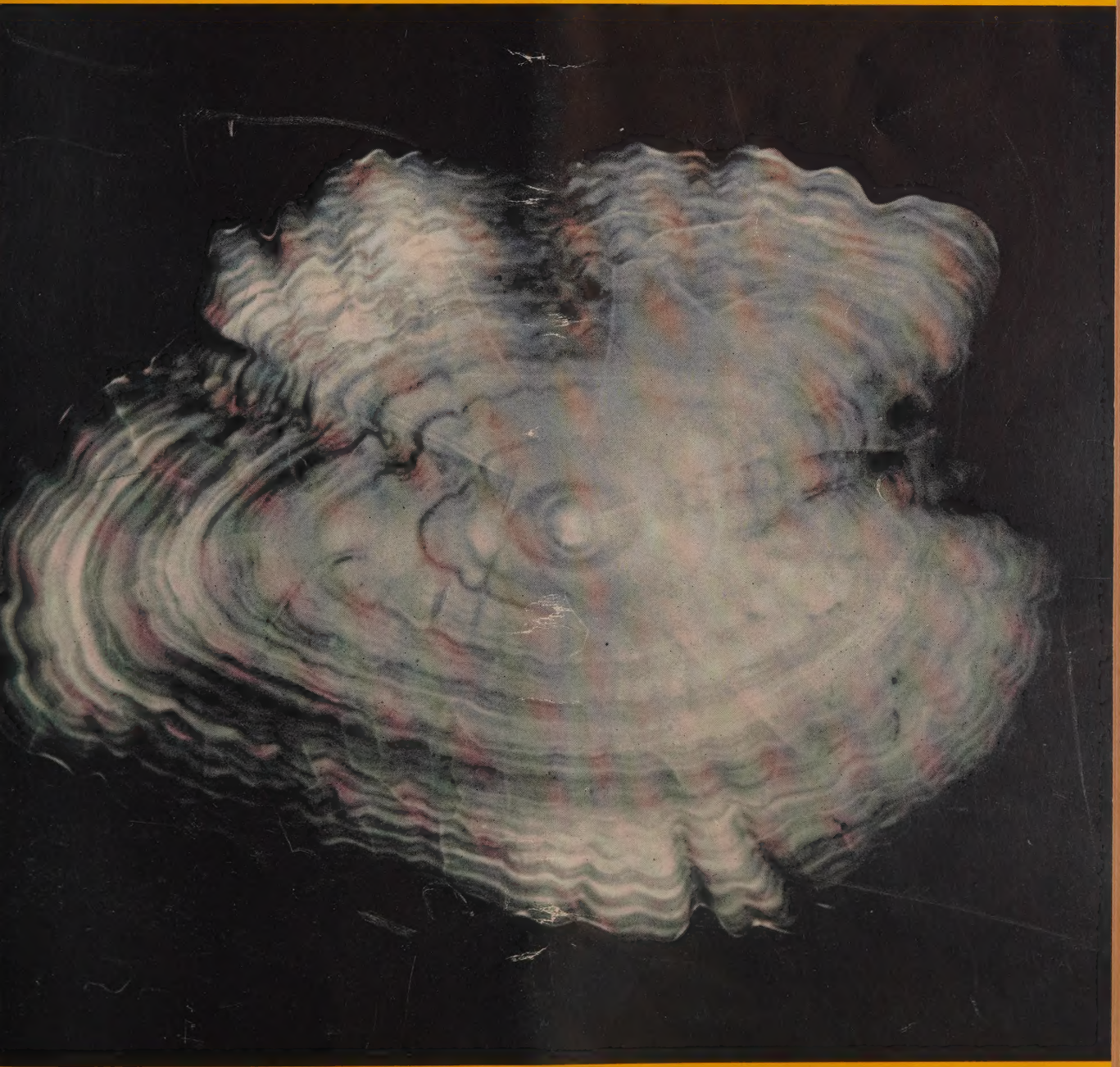
PACIFIC FISHERMAN

Facets of U. S. Fish Reorganization p11

A "Something New" In Tuna p14



EAR BONE OF A HALIBUT bears annular rings which tell the fish's age, providing essential information for the scientist. This International Pacific Halibut Commission photo by Morris Southward is magnified 10 diameters.

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AMERICAN CAN COMPANY *New York • Chicago • San Francisco*

PACIFIC FISHERMAN

Vol. 55 No. 4

MARCH 1957

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DeWitt Gilbert, Editor — **Stuart F. Leete**, Associate Editor

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534 S.W. 3rd Ave., Portland 4, Oreg. ..... CApitol 3-6348

Editorial and Advertising Office

71 Columbia St., Seattle 4, Wash. ..... MAin 1626

Regional Offices

370 Lexington Ave., New York 17 ..... MUrray Hill 3-9294

1791 Howard St., Chicago 26, Ill. ..... ROgers Park 4-3420

402 Pender St., W., Vancouver, B.C. ..... MArine 7287

3501 Eagle Rock Boulevard, Los Angeles 65 ... CLinton 5-7194

500 Howard St., San Francisco 5 ..... EXbrook 7-1881

315 N. Avalon, Wilmington, Calif. ..... TErminal 4-4538

3518 Dante St., New Orleans 18 ..... AMhurst 2762

Circulation Department: 500 Howard St., San Francisco 5, Calif.; Charles C. Baake, Circulation Manager.

Send change of address to PACIFIC FISHERMAN; include old and new address, and zone number.

Subscription rates: U.S., Canada, & Latin America, one year—$3, two years—$5, three years—$7. Other countries: one year—$4. **Postmaster:** Send form 3579 to Circulation Department.

ADVERTISING: Complete plates only should be sent to Pacific Fisherman, 235 N. W. Park Ave., Portland 9, Ore. . . . Advertising copy and cuts, instructions and insertion orders should be sent to the Seattle office.

PACIFIC FISHERMAN (with which is combined West Coast Fisheries). Published monthly except January when publication is semi-monthly, by Miller Freeman Publications, at 534 S. W. Third Ave., Portland 4, Ore. Entered as second class matter at the post office at Portland, Ore., under Act of March 3, 1879. Postmaster, please send Notice 3579 to PACIFIC FISHERMAN, 500 Howard St., San Francisco 5, California.

A MILLER FREEMAN PUBLICATION

An Achievement in Human Problems of Conservation

● Ratification of the Pink Salmon Protocol extending the authority of the International Sockeye commission over that species became a virtual certainty when both houses of the Washington state legislature unanimously passed a memorial requesting the United States Senate to ratify the protocol.

Has a unanimous vote on fishery legislation ever before been recorded?

The protocol was submitted to the Senate for ratification by President Eisenhower February 11.

In addition to ratification of the protocol, it will be necessary for Congress also to enact amendments to the Sockeye Treaty enabling act, extending it to Pink salmon.

● Unanimity of the Washington legislature in its support of ratification reflects the attitude of the state's fishing industry, sportsmen and informed public.

The thoughtful, intelligent attitude with which the matter of inclusion of Pinks within the Sockeye treaty was approached in Washington forms a marked contrast with the 30 years of controversy and conflict required to bring the Sockeye treaty into effect.

Substitution of such a sane, intelligent and unselfish attitude for the old greed and demagoguery certainly is an achievement for international conservation which must rank in importance with the scientific success of the Sockeye commission's staff in meeting its problems of biology, engineering and administration.

Not all problems of fishery conservation involve fish alone. Human behavior can pose some of the most perplexing; but the harmony which attended the Pink Salmon Protocol proves these can be solved by honest, intelligent, cards-on-the-table consideration.

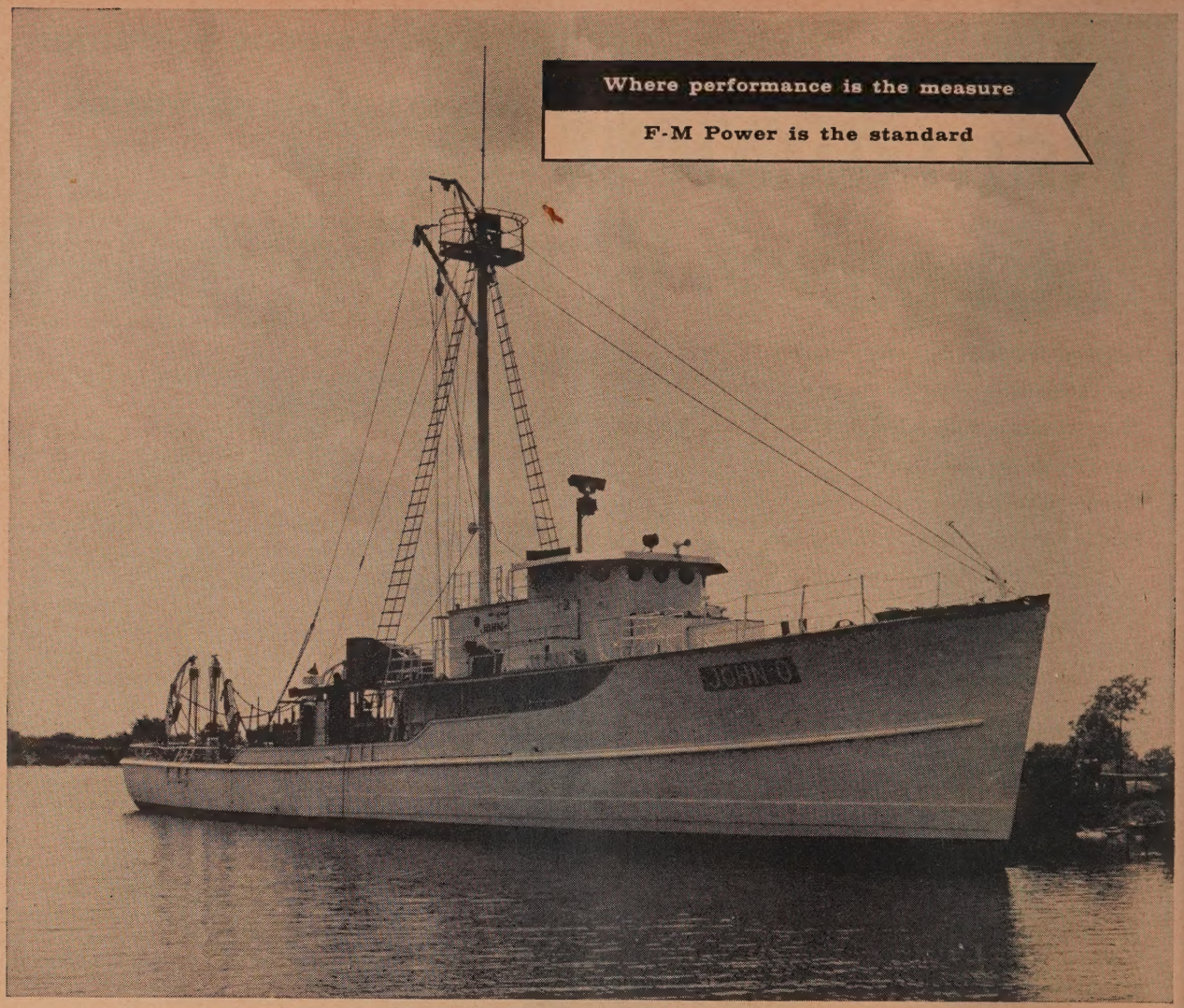
● *This* is an *achievement.*

Pacific States Face-to-Face With Ocean Fishing Deadline

● Pacific states have until April 15 to take legislative action which will control net fishing for salmon on the high seas by their citizens; and thus protect the principle that Federal exercise of jurisdiction over the coastal fisheries of the states is not justified so long as the states exercise control consistent with sustained yield conservation.

The fisheries departments of the three Pacific states have declared control of high seas net fishing for salmon essential to such conservation.

If the state legislatures do not act effectively to this end by the April 15 deadline proposed by the Department of State, then Congress will be asked to enact legislation authorizing the Secretary of the Interior to govern salmon fishing on the high seas in the interests of conservation south of the 49th parallel until the end of 1959; or until the states shall have provided by law for such control.



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Capt. John Lowry (right) of Haylow Fisheries accepting delivery of two 600 hp. O-P's to go into the Menhaden vessel *John O.*

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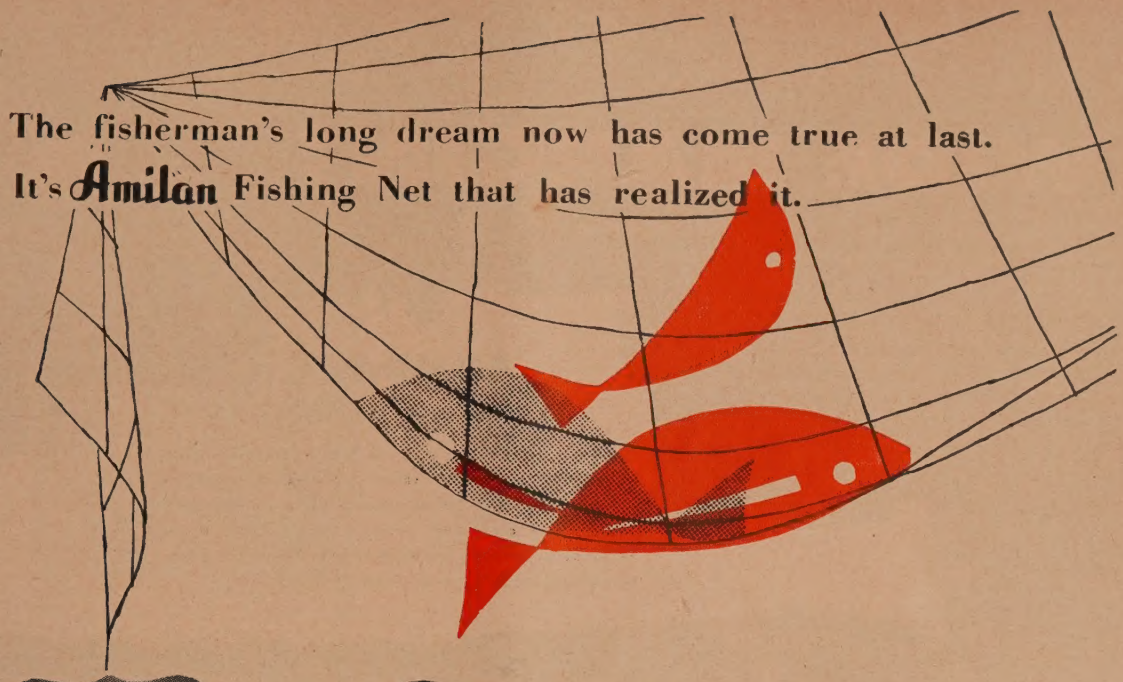

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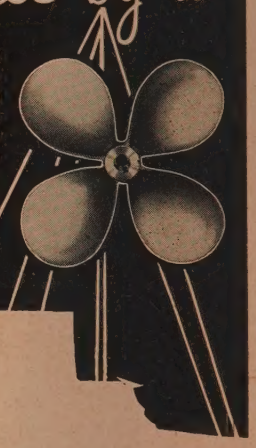

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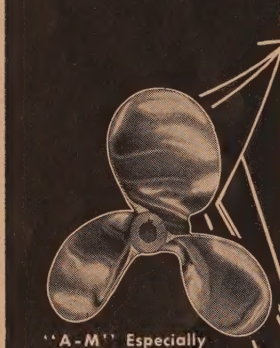

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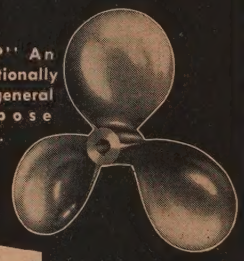

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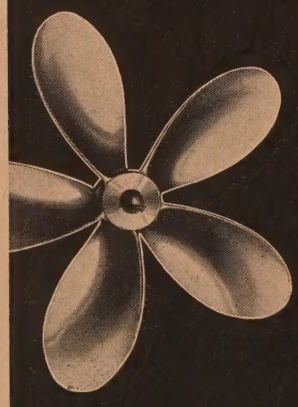

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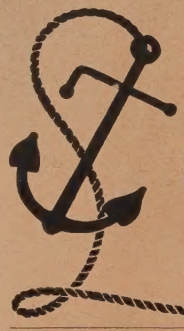

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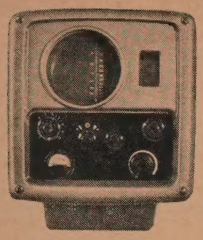

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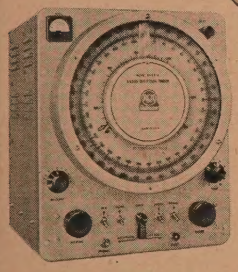

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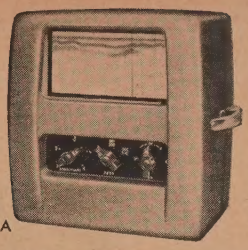

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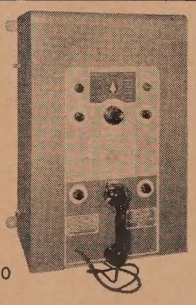

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PACIFIC FISHERMAN MARCH 1957

Facets of Fisheries In Re-Organization

Men and Policies Emerge to Bear U. S. Fisheries Responsibilities

● Active responsibility for direction of the United States Fish and Wildlife Service was placed in the hands of Arnie J. Suomela in February when President Eisenhower submitted his nomination to the Senate for confirmation; which is anticipated.

Who will become Director of the Bureau of Commercial Fisheries remained unofficial at presstime of this issue, but few doubted reports that it would be Donald L. McKernan.

The other leading candidate was A. W. Anderson, veteran Fish and Wildlife Service chief of its former Branch of Commercial Fisheries, who was expected to become assistant bureau director.

Power and Ingratitude

● Eventual crystallization of the Fish and Wildlife Service reorganization after a period of more than six months following enactment of the law last summer produces a number of interesting facets.

One of these is the demonstration of the immense and ruthless power of the professional lobby of the organized sportsmen of the United States. This was manifest first last summer when the lobby concentrated its fire on the Magnuson Bill for administration of the Federal fisheries functions by an independent commission, sinking it without a trace.

Another is the national ingratitude toward John L. Farley, who rendered incalculable service to the United States by his reformation of the federal government's exercise of its responsibility for the conservation of the Alaska salmon fisheries. In part because of the courage with which he attacked the deplorable situation which had developed in Alaska; and in part because of enmities and cleavages within the ranks of the organized sportsmen and their lobby, Mr. Farley was marked for destruction. His resignaton has been submitted, although at presstime it had not been officially announced.

Two Strong Men

● Elements within the fishing industry which sought to have authority over the federal fisheries functions placed in the hands of an officer with the rank of Assistant Secretary have fully attained that end. In the person of Ross L. Leffler of Pennsylvania they have a very capable individual whose whole interest in the functions of his office have been on the Wildlife side. In his appointment lies further evidence of the powerful voice with which the Wildlife lobby speaks.

On the other hand, the commissionership, with its *active* direction of the affairs of the Service, goes to Mr. Suomela, who literally has grown up in the commercial fisheries. Those who know him best know well that the man is big enough and broad enough, intelligent enough and objective enough to prevent the fact of his long association with the Fisheries from impairing his value to the Wildlife aspect of his responsibility.

"Career Man" in Fact

● A biologist trained in the University of Washington School of Fisheries, he served the Fish and Wildlife Service in Alaska, and then joined the scientific staff of the Washington State Department of Fisheries. He turned from active biological research to the field of fisheries administration when he became master fish warden—a title later changes to "director"—of the Oregon Fish Commission.

From that responsibility he was borrowed by Secretary of the Interior McKay in the summer of 1953 to make a survey of the Department of the Interior's stewardship in the fisheries of Alaska. Going into 1954, he was appointed assistant director of the Fish and Wildlife Service, where he served as John Farley's right-hand man.

He now heads the combined functions of the Commercial Fisheries and the Wildlife Bureaus.

Who for Alaska?

● If, as appeared altogether probable at presstime, Mr. McKernan becomes director of the Bureau of Commercial Fisheries it will mean that a new Alaska fisheries administrator must be appointed. Reaction within the salmon industry to the prospect of Mr. McKernan being withdrawn from Juneau

to higher rank and larger duties in Washington was marked by disappointment. It is widely felt that he has made excellent progress in grappling with a problem which had been allowed to become critical; and that he had brought to his administration a human understanding of the problems of the fishermen and operators —as well as of the fish—which had not before been manifest in the exercise of Federal responsibility for the Alaska resource.

"Who will succeed McKernan in Alaska?" was a question often heard toward the end of February.

Some thought it might be Donald R. Johnson, chief of the Washington State Department of Fisheries scientific research. There were reports that it had been offered to him; and some said he had not been too interested.

John T. Gharrett, who for more than a year has been Mr. McKernan's assistant administrator, was considered a strong possibility.

International Shifts

● Resignation of Mr. Farley will undoubtedly result in a number of shifts in American representation on some of the international commissions. Thus, he was chairman of the Great Lakes Fisheries Commission between Canada and the United States; a member of the Inter-American Tropical Tuna Commission; and a member of the International North Pacific Fisheries Commission.

New policy with respect to United States representation on these international commissions may possibly emerge, as the desirability of higher-ranking representation for the Federal government on such bodies was one of the strong arguments for creation of a new Assistant Secretary of the Interior for Fisheries and Wildlife.

Will the Assistant Secretary assume the role of Federal commissioner on all international commissions?

Will he divide the responsibility with the commissioner, who already is a member of the Sockeye commission and the Northwest Atlantic commission?

The New Hand

● Table of organization of the Fish and Wildlife Service was worked out recently at a conference of Service officials, industry representatives and wildlife spokesmen with Assistant Secretary Leffler.

Under Commissioner Suomela there will be three independent offices: International Affairs, Information and Program Review.

Under the Director of Commercial Fisheries, who will have one assistant, there will be an independent office of Loans and Grants.

Arnie J. Suomela, nominated by President Eisenhower to be Commissioner of Fish and Wildlife.

Four divisional offices are provided for:

Administration — Handling budget and finance; management analysis; personnel management; property management.

Biological Research — With three branches, anadromous fisheries; marine and inland fisheries; shellfisheries.

Industrial Research and Service— As the former "Branch of Commercial Fisheries", this was much the largest of the fisheries branches in budget, personnel and diversity of enterprises, which now include: economics; exploratory fishing and gear; market news; marketing development; statistics; technology.

Resource Management — Here are four branches: Alaska fisheries; enforcement; sea mammals; Columbia River program.

● There are several anomalies in the organizational picture, but they are not new and have been in effect for some time. For example, the Pacific Oceanic Fishery Investigations in Hawaii have no responsibility to the Division of Biological Research, but report straight to the Bureau Director. So do the regional offices, of which there are five, even though the Division of Resource Management has certain responsibilities in the cases of Alaska and the Columbia River Program.

● The five regions of the Bureau of Commercial Fisheries now are: Pacific Coast; Gulf and South Atlantic Coast; North Atlantic Coast; Great Lakes; Alaska.

Prospect of a shift in the case of the Alaska regional fisheries administrator has been discussed.

Changes also appear certain in the Pacific Coast regional office at Portland. Leo Laythe, who has been regional director, is definitely a Wildlife man, and may be expected to follow that Bureau. He has had two assistant directors with Fisheries backgrounds: Samuel J. Hutchinson and Joseph T. (Tom) Barnaby.

Japanese Subsidiary to Pack Tuna "Luncheon Meats" in US

● Manufacture of specialty tuna products in the United States will be undertaken this spring by Tuna Products Corporation, a subsidiary of Nippon Reizo K.K., the great Japanese refrigeration house, which operates 90-odd cold storages of varying size in Japan. This firm also is one of the principal producers and shippers of frozen tuna to the United States.

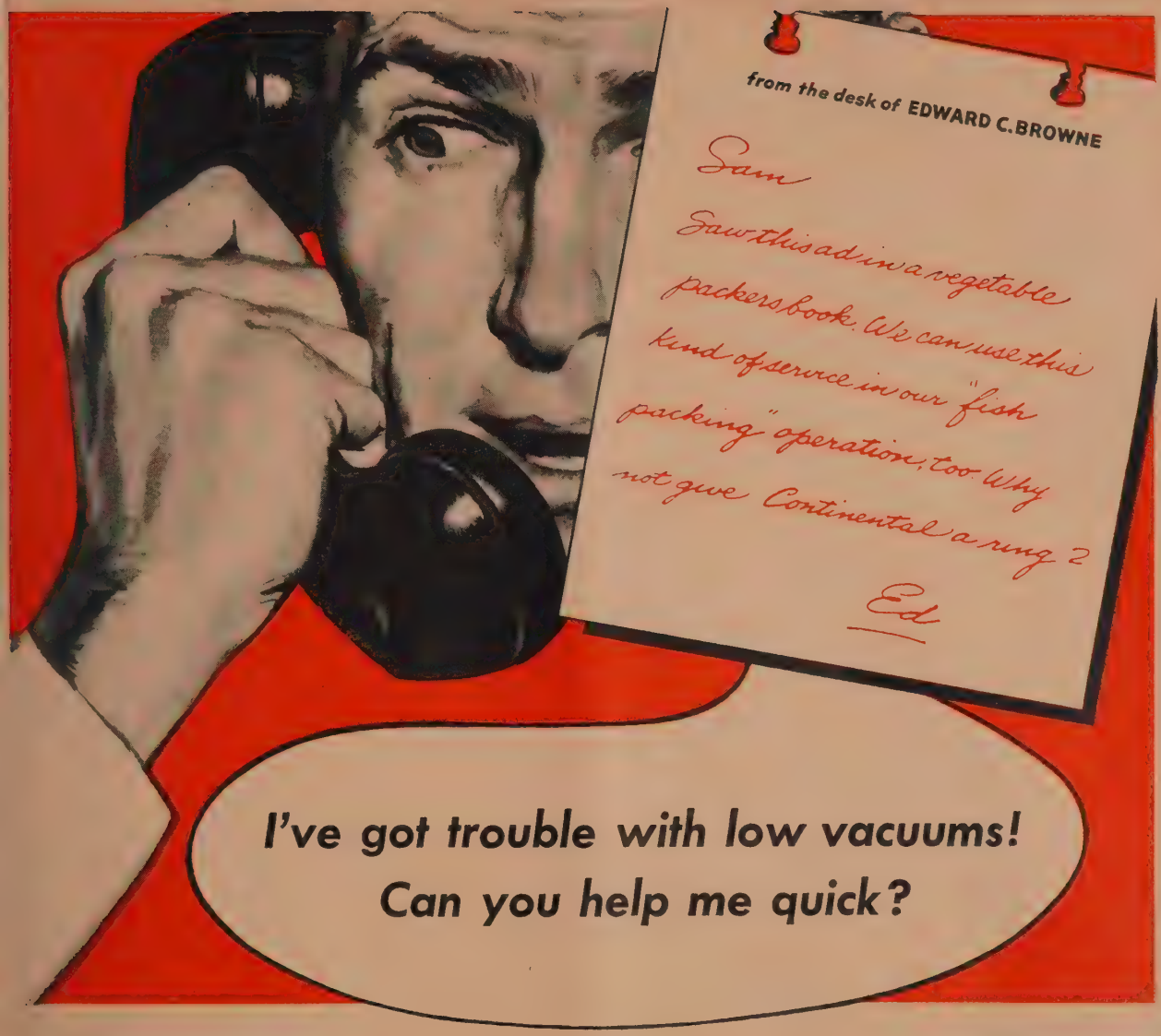
The plant is being established in Boston, where the company is purchasing existing facilities. The Japanese government has already authorized the necessary foreign exchange for the new firm, which will have an initial paid-up capital of $100,000 and an authorized capital of $1 million.

The firm will manufacture and market various newly-developed tuna products, such as "loaf" and "sausage" and other luncheon meats. These products are now being marketed in Japan and in taste and appearance are very similar to pork luncheon meats.

The director of the Japan Cold Storage explained that the establishment of an American subsidiary grew out of the need for new markets for tuna and similar fish. He expressed confidence that a market for new tuna products could be developed in the United States and indicated that American tuna firms might eventually participate in the new venture.

Managing director of Nippon Reizo is S. Matsuzaki, a businessman with considerable North American experience, excellent command of English, and an exceptionally progressive point of view (See article "Strict Standards," Page 53, Pacific Fisherman, July, 1956.)

His firm has the contract for operating the fleet of fishing vessels which supply tuna to the Van Camp Sea Food co. cannery in American Samoa.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The "Something New" in Tuna

"Vegetable Broth" Wins a Place in Several Products of the California Fish Canneries

● Employment of a "vegetable broth" in some packs of canned tuna is among the interesting and significant recent developments in the American tuna industry.

Initial use of the broth as an ingredient of canned tuna is generally credited by the California industry to Dr. Ernest Geiger, who introduced it in the *Chicken of the Sea* dietetic pack in order to give this salt-free specialty product a "pick-up" in flavor.

A formula of dehydrated vegetables, such as carrots, tomato, parsley, spinach, cabbage and a vegetable protein hydrolysate, was created and applied in liquid form to each can of dietetic tuna. The same broth is used to "spice" the *Chicken of the Sea* strained tuna baby food, also, by Van Camp.

Dr. Geiger, who is an expert on nutrition, and director of research and development for Van Camp Seafood Company, emphasizes that this broth pack, rich in protein, has a high biological value and is particularly suited in diets for weight reduction and for the use in diet-therapy. After success with these specialty products, Van Camp expanded the use of the broth into other packs, such as chunk and grated.

Among other canneries, Westgate-California Tuna Packing Co. of San Diego and Star-Kist are now using a broth addition to several or all of their packs.

● In the case of Westgate-California's chunk pack, standard soy bean oil is added, and salt, as well as the broth from the dehydrated vegetables. This is true of the packing formula for Van Camp's grated and other styles.

Star-Kist uses monosodium glutamate with the broth—a product similar to a vegetable protein hydrolysate —the effect is much the same, according to laboratory technicians. The use of both is primarily for flavor. Star-Kist uses only distilled water in its chunk dietetic pack.

Dr. Geiger also says the amino acid in hydrolyzed vegetable protein tends to inhibit oxidation, and some protein value is added to a can of tuna by the use of the broth. In the Van Camp process the hydrolysate is added in liquid form when the broth is in preparation.

In the packs of tuna, using broth, its addition appears to add flavor and improve color and texture in the oil pack, as well as in the dietetic packs, where it acts as a substitute for salt in diets where salt is prohibited.

Van Camp Seafood Co. had used for some time in testing its dietetic pack and elsewhere a Beckman spectrophotometer which analyzes the tuna and records the sodium content. In dietetic tuna, the sodium content must conform to a very low tolerance.

● In a dietetic pack the broth is added at approximately the same stage as would have been the oil and salt, before the cans approach the closing machines, and by the same overhead system of pumping through pipes that is standard in the addition of oil. It is delivered at a measured rate with spray injection.

Where both broth and oil are used, the procedure varies with each cannery, but with both added separately. Sometimes the oil comes first, sometimes the other, depending on plant practice.

At Van Camp's San Diego plant, with its modern installation for the preparation and dispensing of broth, there are two large stainless steel kettles in which the dehydrated vegetables are placed, with water kept at a controlled temperature. There is also a smaller "holding" tank in the room which houses the broth tanks, upstairs over the main packing area. The broth is pumped by the overhead pipes to the packing lines, as it is needed.

The broth is prepared in stainless steel steam-jacketed kettles with automatic temperature control. All pipe and fittings used in distributing the broths are also of stainless steel.

No salt is used in the preparation of the broth, as it may be employed in a dietetic low-sodium pack. Where the broth is used in normal packs the salt is added in solid form in the usual manner.

Through the fishery products division of the National Canners Association, in the proposed Standard of Identity for canned tuna, reference was made to the use of vegetable broth. The use of two or more of the following vegetables in packing of tuna was asked to be a part of the canned tuna standards: beans, cabbage, carrots, celery, garlic, onions, parsley, peas, potatoes, red and green bell peppers, spinach and tomatoes.

Van Camp Shifts Raise Glenn Copeland

A number of changes have taken place in the Van Camp Seafood organization on Terminal Island and in San Diego.

Glenn Copeland has become vice president, director of operations, Terminal Island. Bob Beamon, who started with Van Camp in San Diego in 1936, is now director of purchasing, Terminal Island. He was plant manager in San Diego.

Glenn's brother, Paul, formerly plant superintendent at San Diego, is now plant manager there.

Martin Quamma, who has left his ice-skating career, is now personnel manager. Leonard Quamma is serving at the present time as assistant manager of overseas operations.

U. S. Tuna Standards Follow Industry Proposals Closely

• With only minor revisions, the American tuna industry's proposals for Federal standards for canned tuna were published by the Food and Drug Administration February 13 as an administration order, subject only to the statutory provisions for objections from those who feel they would be damaged by the standards.

In the preamble to the order, Dr. John L. Harvey, deputy commissioner for Food and Drugs, said "it will promote honesty and fair dealing in the interest of consumers to adopt, with minor modifications, the proposed definitions of standards of identity and fill of container for canned tuna".

The standards contained in the Administration's order depart from the details published in *Pacific Fisherman*, September, 1956, Page 20, only in these particulars:

1. Smoked tuna is included among the permissible forms of pack, and must be so labelled.

2. Garlic is included among the optional ingredients.

3. Not less than 20% of blended tuna shall consist of flakes which meet the color standard for either white meat or light meat tuna.

• Any persons who believes he will be adversely affected by the order may file, within 30 days after Feb. 13, written objections which "shall show wherein the person filing will be adversely affected by the order, shall specify with particularity the provisions of the order deemed objectionable, and the grounds for the objections, and shall request a public hearing".

Except for such provisions as may be stayed by the filing of objections and the holding of hearings, the provisions of the order covering *fill of container* shall become effective 90 days after Feb. 13; and the *definition and standards of identity* shall become effective on Feb. 13, 1958.

Four-Power Fur Seal Treaty Signed After 14-month Talk

• After 14 months of negotiation, Canada, the United States, the U. S. C. R. and Japan have reached agreement on a new convention for the management of the fur seals of the North Pacific.

Since 1942 Canada and the United States have been the only countries sharing in the annual catch taken on the Pribilof Islands, which are in the Bering Sea, north of the Aleutians and about 300 miles west of Alaska. Canada's share has been one-fifth, which represented a gross annual income to this country of about $1,000,000.

The first North Pacific fur seals agreement was signed in 1911 by the same four countries which have just re-negotiated the treaty. Prior to that pelagic sealing, or the killing of seals at sea, had been carried out by the nationals of many countries and the depletion of the herds showed the need for conservation. The 1911 convention prohibited pelagic sealing and provided for a selective and controlled kill on the Pribilof islands, to which the fur seals return each year to breed. Russian participation in the convention ended in 1924 and Japan abrogated the treaty in 1940. In 1942 a provisional agreement between the United States and Canada replaced the 1911 covention.

During recent years Japan and the U. S. S. R. again showed interest in the conservation of the seal herds by controls on pelagic hunting, and the conference which resulted in the proposed new agreement was opened in Washington on November 28, 1955. There will be controlled catches on the Pribilof Islands, which harbour the main herds estimated at 2,000,000 seals during the breeding season, and on Commander and Robben Islands, each of which have estimated populations of 100,000 seals.

Courtney in Puerto Rico

George Courtney of the laboratory staff of the Van Camp Seafood Company, Terminal Island, was in Puerto Rico in February. He was there in connection with the operations of the Ponce plant, recently acquired by Van Camp.

HERALD A. O'NEILL

Herald O'Neill to Direct Salmon Canners Association

Herald A. O'Neill, a notable Seattle attorney identified for many years with the affairs of the fisheries, was appointed executive secretary of the Association of Pacific Fisheries in February. He was announced by E. E. Murray, president of the Association as the successor to Dr. E. D. Clark, who retired last summer after 36 years of service.

An honor graduate of the University of Washington Law School in 1930, Mr. O'Neill for 15 years has specialized in matters pertaining to the fishing industry, and for a number of years has been executive secretary of Puget Sound Salmon Canners, Inc. He will continue to handle the affairs of the Puget Sound association, and to serve as counsel to the Alaska Salmon Industry, Inc., in addition to his duties with the Association of Pacific Fisheries, which was founded in 1914. The organization is the oldest organization of fishery operators on the Pacific Coast.

F. Ray Steele, Kadiak Fisheries Official Dies

F. Ray Steele, secretary-treasurer of the Kadiak Fisheries Co. and the Chignik Fisheries Co., died late in January after an illness of a few days. He was 61.

Born in British Columbia, Mr. Steele came to this country about 35 years ago, and had been associated with the Kadiak company since 1937.

Up From Peru

William J. Meltzer, production manager for Wilbur-Ellis Co. in Peru, with headquarters in Lima, and Mrs. Meltzer were San Francisco visitors last month.

Schoettler's Service

● Crowning accomplishment of Robert J. Schoettler's administration as director of the Washington State Department of Fisheries became apparent only after he went out of office.

It is an accomplishment which may continue to bear fruit for many years, just as the numerous researches and rehabilitation projects he carried through will promote the propagation of salmon for all time.

What is this "crowning achievement"?

It is the soundly conceived, smoothly projected fisheries protection, rehabilitation and perpetuation program submitted to the 1957 Washington legislature by its Interim Fisheries Committee.

It is the new approach to fisheries legislation manifest at Olympia this winter, an approach which saw fisheries legislation originate not with the governor's office, not with the Director of Fisheries, not with individual legislator, but with the Interim Committee, which had been studying the problems of the Department of Fisheries for two years.

● This was an administrative concept which Mr. Schoettler adopted and carried into remarkably successful effect in the last biennium of his administration. He made the Legislative Interim Fisheries Committee virtually a part of the Department of Fisheries. He kept its members continuously aware of the department's problems, its measures for meeting them, and its views as to effective legislation which would prevent them in the future.

His program extended further, to Interim Committee hearings which acquainted all elements interested in the fisheries with the problems faced and the measures contemplated; and gave time for divergent viewpoints to be harmonized. The concrete result was that by the time the legislature held hearings on the Interim Committee measures the fishing industry was virtually unanimous in its support.

Bob Schoettler wasn't there, but the program which produced the results was *his*.

● Moreover, his approach to the primary problems of his office, his analysis of their key elements, and his methods of resolving them were productive of positive results—in the human and political as well as in the biological and engineering aspects.

Wise directors in many states and for many years will find their work easier and more productive for the proven methods and accomplishments of Bob Schoettler's service.

Chums Need Help

Canada Seeks to Reverse Nature's Adverse Effect

● Unfavorable survival conditions, either in the streams or in the sea, must be accepted as the cause of the disastrous 1956 failure of the Chum run to the streams of British Columbia.

This is the conclusion of A. J. Whitmore, chief supervisor of fisheries for the Department of Fisheries in the Pacific area, as voiced in his annual scrutiny of the run and escapement.

He finds no evidence that overfishing was to blame, and makes a strong point that the 1952 brood stocks were heavy as result of a fishermen's strike in the escapement period of that year.

Commenting on the Chum disappointment, Mr. Whitmore says:

"For the second consecutive year, outstanding feature was the serious decline in the Chum run to most sections of the coast. A lengthy fishermen's strike during September and October in 1952 helped to provide brood stocks, the progeny of which would make up the runs in 1956. Although the runs in a few areas were larger than that of 1955, generally they were only *about one half of normal*. Despite immediate application of added fishing restrictions designed to augment escapements for reproduction purposes, the seeding of the spawning grounds with few exceptions can only be classed as light. As this year's failure follows that of the 1955 coastwise pattern, it can again only be assumed, with present information, it resulted from very unfavourable survival conditions either in fresh water or later during the longer period of existence in the ocean.

Counter Measures Coming

● Fair notice is given that the industry must anticipate measures designed to counteract the adverse effect of inadequate escapements as result of these undernormal recent runs. The words are these:

"The Chum failure in Queen Charlotte Island area was pronounced, and is the fourth consecutive season of poor Chum runs, calling for *immediate application of extra-ordinary measures* for the rehabilitation of the once prolific Chum streams of this area. Pink returns to this area were also disappointingly light and will also require special conservation attention.

"Despite special protective measures, Chums destined for the Fraser were seriously reduced in numbers during passage through Johnstone Straits and Discovery Passage by the highly efficient and mobile seine and gillnet fleets there. Other important Chum reproduction areas, in common with the Fraser, also suffered from the effectiveness of this fishing operation. Further measures to provide for an adequate progressive escapement through this fishery are imperative immediately."

Antibiotic Tests With King Crab Inconclusive

Tests to determine the effectiveness of antibiotics in extending the fresh life of Alaska King crab, made in the Kodiak-Afognak area this year through the Alaska Fisheries Products Laboratory at Ketchikan, were inconclusive, according to reports from Port Wakefield, where the work was done.

J. Howard Wakefield of Wakefield's Deep Sea Trawlers, Inc., says that the studies indicated that the studies confirmed the opinion that the fresh life of King crab under the best conditions now practiced does not exceed 36 hours.

PACIFIC FISHERMAN'S NEWS

MARCH 1957

14 Pacific Fishermen Get $309,000 in Federal Loans

● Fourteen loans, totalling $339,423, had been made to Pacific Coast fishermen from the new Federal fisheries loan funds to time of first announcement of allocations in February.

Of the Pacific total, six loans, aggregating $309,750, were made on California applications; seven, totalling $20,800, went to Alaska; and one, for $8,873, went to Washington.

All told, the report announced 35 loans consummated out of 125 applications for a total of $1,196,330. There had been five rejections. The other applications were pending at presstime.

Largest loan of all was $250,000 to Delta Towing & Transportation Co., Pascagoula, Miss., to modernize and refinance menhaden vessels. Second loan in size was to M. Machado Medina, San Diego, for refinancing.

Other Pacific Coast loans announced were:

California — Gestur R. Armann, Costa Mesa, $6,000 for repairs and refinancing; Dorothy and Russell Farnell, Westminister, $20,000 for repairs and refinancing; John E. Leanders, San Diego, $79,900 for refinancing; Katherine Tierheimer, Torrance, $3,850 for vessel improvement; Joe E. Penacho, San Diego, $45,000 for refinancing.

Washington—Woodrow E. Anderson, Bellingham, $8,873 for refinancing.

Alaska—William Estrada, Juneau, $1,500; Leonard H. Redman, $2,500; Edmund J. Krause, $3,400; John E. Turner, $4,000; R. A. Brandall, $2,500; Roy A. Opheim, $4,900; and Howard V. Rawley, $2,000. Rawley lives in Ketchikan and all of the others live in Juneau. The loans were for vessel repairs, replacement of gear, and, in one case, for refinancing.

George Johansen Chosen Once More by A.F.U.

George Johansen was automatically selected for a seventh year as secretary-treasurer, the chief executive office, of the Alaska Fishermen's Union when nominations closed in February with no other name offered. Similarly re-elected without opposition was Swan Lundmark, assistant secretary-treasurer.

Abe Lehto, San Francisco agent, and Swan Ohman, agent at Portland, were also chosen without contest.

At Bellingham, Jack Wood, agent, will be opposed by Knute E. Jensen. Seattle nominations for three positions on the AFU Policy Board are: Henry Gruntman, John R. Heinig, Rasmus Mikkelhaug, Arnold Rosvick and Ben Solberg.

William Lehto, San Francisco, and John Storkersen, Portland, were renominated for the Policy Board without opposition.

San Pedro Keeps U. S. Fisheries' High-Line Crown

● San Pedro maintained in 1956 its long-standing position as high-liner among American food fish ports, with 382,900,000 lbs., largely tuna, mackerel and sardines.

This gave the California port a long lead over Gloucester, Mass., whose 250,000,000 lbs., principally ocean perch and whiting, earned second place.

Landed value, *to the fisherman*, of San Pedro's deliveries approximated $29,000,000.

Boston, the nation's principal port for haddock, cod and pollock, reported landings of 147,200,000 lbs. worth $10,500,000 to the men on the boats. San Diego, a tuna port, trailed Boston in poundage landed, but surpassed the eastern city in value of the catch. Landings at San Diego amounted to 135,300,000 lbs. with a value of $18,800,000. New Bedford, Mass., famous for the scallop and flounder landed there, had 88,000,000 lbs. of fish valued at $12,350,000. Portland, Me., largely an ocean perch port, followed with landings of 58,500,000 lbs., valued at $1,886,000.

During the year fishermen of the United States and Alaska caught 5.2 billion lbs. of fish, of which 2.8 billion lbs. were food fish and 2.4 billions industrial catch. Industrial fish landings were chiefly at Middle Atlantic and Gulf ports.

Famous "Thoreen" Ruined By Fire at Sea

Thor Botten's *Thoreen*, with which he made history last summer by pioneering the ocean gillnet fishery for salmon, thereby triggering a two-nation move against this form of fishing, was burned to her steel hull by a fire which broke out as she was fishing off the west coast of Vancouver Island in February.

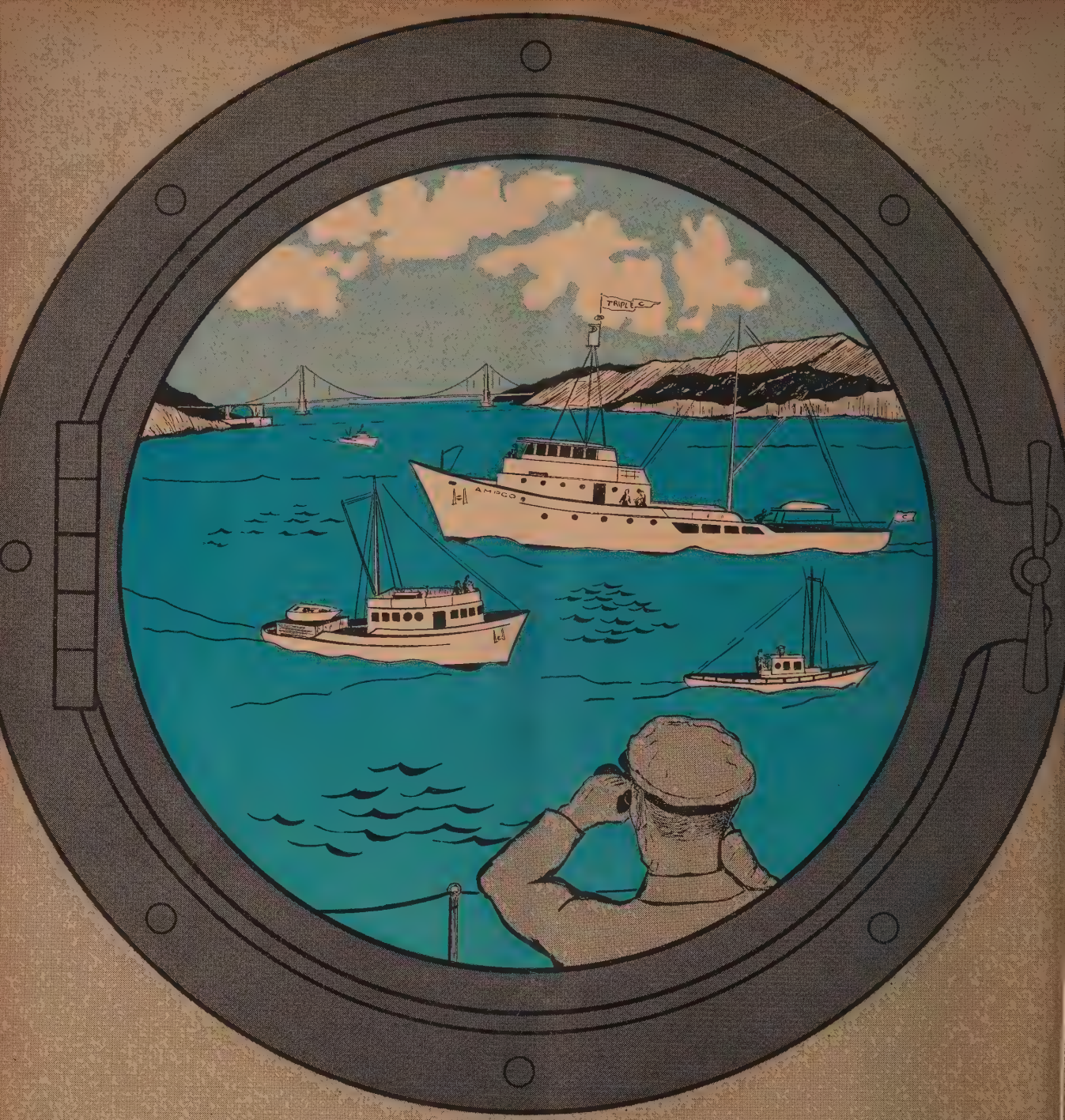
The fire resulted from an explosion in the galley range.

Botten and his crew members, Chet Carlson and Tom Gould, got off the burning dragger in her skiff and were picked up by Carl Serwold in the veteran *Tordenskjold*.

"Antoinette" Gets Diesel

Antoinette, San Francisco crab boat owned by Vincent Pizzo, has been repowered with a General Motors 2-71 diesel engine purchased from Shoreline Diesel Maintenance, Fishermen's Wharf, San Francisco.

Shoreline Diesel did a complete overhaul of the GM 4-71 diesel in *Banshee* owned by Dale Miller, San Francisco.



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August K. Ness Dies in Astoria

August K. "Gust" Ness, veteran gillnet fisherman for 56 years, died recently in an Astoria hospital. He had not been in good health for the past two years.

Mr. Ness, a native of Trondheim, Norway, began fishing in Astoria in 1899, and for a number of seasons fished also in Alaska. Most of his fishing had been done for CRPA and Altoona Packing Company.

Snowcrest Bags Sharks

The *Snowcrest* with skipper Harold Snow and assistant Stanley Haskin is fishing for basking shark in Monterey bay. The boat comes into the harbor almost every day with one or more of the big fellows tied on behind. The Salinas Tallow Co. is buying the carcasses, reducing the liver for oil and using the remainder for leather tanning purposes and manufacture of paint.

SCOPE and SOUNDER

Monthly digest of present-day pioneering methods and equipment in world fisheries.

By PETRALE

"Havana" Seeks Petrale And Dover Sole Secrets

● The Washington State Department of Fisheries chartered the schooner-trawler *Havana* for bottom fish travel studies during the months of February. The vessel skippered by Jack Ray carried out tagging and survey work in the Estevan Deep area off the west coast of Vancouver Island. The work is reported to be a continuation of studies of the conditions of deep-water stocks of Petrale sole and on seasonal migration patterns of both Petrale sole and Dover sole. Two state biologists, Ken Thorson and Russ McKeever, accompanied the vessel during the studies.

Depth Finders Trace Trawls in Mid-Water

● A depth finder developed especially to follow the movement of mid-water trawl nets has been announced in West Germany. The device uses sound waves to follow the depth of the trawl and is claimed as a definite improvement over similar devices using frequency modulation. So that fishermen may easily follow the depth of their mid-water gear, a device called the "telecommunicator" has been developed. This instrument attaches to the ground rope of the trawl net and measures pressure changes, which are electrically transformed into sound signals and transmitted to the fishing vessel. Instead of employing the frequency modulation technique as used in a similar United States device, the German instrument uses groups of intermittent sound signals for various depths. The telecommunicator sends out depth indicating signals every 10 seconds. These signals are counted to determine the depth. For example, if the net is moving at a depth from 25 to 30 ft. and sound signals are received, the number of sound signals receivable range from 1 to 10. After reaching a depth of 60 ft., the pattern is repeated. No difficulty was had at confusing the patterns as the depth of the net was easily determined within a tolerance of 60 ft. Excellent reception from the telecommunicator was reported when 375 fathoms of cable was out at a depth of 450 ft.

Puget Sound Cable Meter Gains World Acceptance

● The use of trawl cable meters to measure the amount of cable or warp out when trawling is gradually catching on in the Washington trawl fleet and the meters are said to be in use in many countries outside of the United States. The instrument, which was developed by the Olympic Instrument Co., Vashon Island, is now in use in Norway, New Zealand, France, Italy, and South America. It is also finding use in many locations within the United States and several are reported in use in the Hawaiian Islands.

The meter, which measures the amount of cable out in fathoms, has capacity of 1000 fathoms and saves considerable time by eliminating cable markings. A new modification allows for passing heavy splices through the device, which should make it more adaptable for the East Coast type of trawler.

"Cobb" Cruises to Test Mid-Water Trawl Gear

● Starting in late February, the U. S. Fish and Wildlife Service vessel *John N. Cobb* initiated series of cruises with the purpose of testing and developing mid-water trawl gear. The vessel is expected to make a number of trips in the waters off the Washington and Vancouver Island coast to attempt to test the suitability of this type of gear for catching fish inhabiting midwater depths.

Washington Shrimp Catches And Activity Mounting

● Reports from the new shrimp fishery in the Grays Harbor area indicate that improved weather conditions have given the local shrimp trawlers the opportunity to make good catches of small pink shrimp. The trawlers *Daisy* and *Royal* have put in several good catches exceeding 10,000 lbs. in two days fishing. The newly installed shrimp peeling machine put

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in use at the Kaakinen Fish Co. is said to be working well and local fishermen have hopes that the embryo fishery will expand and become a reliable new industry. Catches made to date have all been made in the waters closely adjacent to Grays Harbor at depths from 50-80 fathoms. The shrimpers are using Gulf Coast shrimp nets and new Department of Fisheries (Washington) regulations will permit their operations the year around in ocean waters. The landing of food fish caught in small mesh shrimp nets is not permitted.

Oregon Uses a "Try Net" To Study Young Flatfish

● Biologists of the Oregon Fish Commission are eager to obtain more information on young Dover sole not normally taken.

In attempts to successfully capture these immature flatfish the biologists have used a small "try net" similar to that used in the Gulf of Mexico shrimp fishing. Through cooperation of the state police, the biologists carried out their experiments aboard an offshore patrol boat normally used in law-enforcement work. A "try net" was used by Oregon biologists successfully in 1951 to collect small English sole for early growth studies.

SAN DIEGO BITE-SIZE ITEMS

● *DR. ROGER REVELLE*, director of Scripps Institution of Oceanography, whose research boats and staff are doing a considerable amount of work on tuna fishing, was awarded an honorary Doctor of Science degree at Pomona College in mid-February. . . . Harold Cary and Dr. W. M. Chapman of the American Tunaboat Association were in Washington, D. C., in mid-February. . . . Hugh Maxwell is now port engineer for National Marine Terminal. . . . George Dew was expected in February to return soon to San Diego from Peru. . . . Eddie de Rosa is skipper of the new steel *United States*. . . . another hull, sistership to the *United States*, *Missouri*, etc., is now under construction at National Steel.

AMERICAN BOY was recently on drydock at Campbell for repair of damages to the vessel in Guaymas. . . . *Miss America* had a new skipper on her last trip to sea—Ray Pureya. . . . Kenny Adams has had the command. . . . *Gem of the Sea* was recently in San Pedro for an overhaul. . . . Anthony Jesse is skipper. . . . in February Harold Morgan Jr. was preparing to take his family to Ponce, Puerto Rico, where he will be in charge of Van Camp's tuna plant there. . . . Joseph Mumma is now personnel manager at San Diego's Van Camp plant. . . . *Queen Mary* and *Santa Helena* are reported going to deliver to Ponce, and the *Far Famed* is returning.

ALPHECCA now has a Bendix DR-16, a flexible unit which can be used on the boat of the boat's tender. . . . Shepherd Marine at San Diego made the installation. . . . Shepherd has also placed equipment on two smaller boats —an RCA BT 8057 on boats owned by J. J. Moore and C. Columbus . . . on the *Nina*, owned by Pete Piranio, Shepherd has installed a WC2 Hallett auxiliary . . . this engine is now being sold through American M.A.R.C.

BOND, "Cat" powered, is reported to be transferring to Mexican ownership, as well as the *Robert K.* . . . Mauricio Brothers boat yard recently had the *Mabel M* and the *Carolyn B* on the ways for paint jobs. . . . Ketenburg Boat Works had a large ex-

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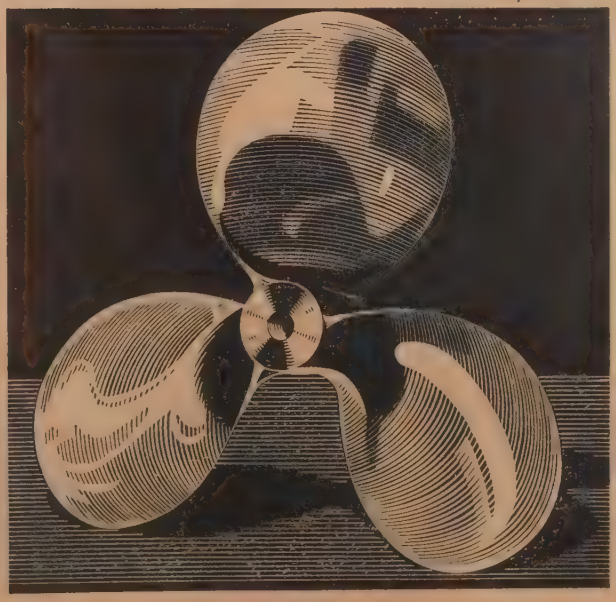

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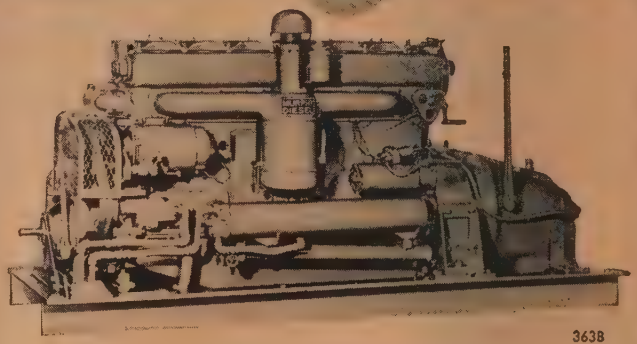

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hibit at the recent San Diego Boat Show . . . and Koehler Kraft, Graymarine dealer, had a display of Graymarine engines at the same show. . . . Jack Lopp of the Southern California regional office for Chrysler marine engines was in attendance at the San Diego Boat Show.

INVADER was damaged by fire in February while moored at an oil company dock in San Diego. . . . Salvatore Navarra, engineer and part owner of the clipper, said the boat was preparing to leave for the fishing grounds . . . blaze was confined to the engineroom. . . . California Fish and Game biologists were given the opportunity to tag Yellowfin and Skipjack off the coast of Mexico, on the *Lucky Star* . . . the *Heroic* and the *Southern Pacific* have also contributed to this research . . . the new steel *Elsinore* has also worked with Fish and Game marine biologists in tagging Yellowfin and Skipjack. . . . Spain is reported to be building four United States type clipper ships to fish off the Canary and Azores . . . Kettenburg Boat Works recently shipped two tenders for the vessels. . . . *Sun Pacific* was one of the clippers most recently to have worked with biologists in tagging tuna . . . major area for tagging and releasing was the vicinity of the Las Marias Islands.

FAR FAMED is reported by the Bureau of Customs to have a transfer of ownership from Serafino Parmigiani to Maurice Bernardini of San Diego . . . she was formerly the *Conte Bianco*. . . . *Sun Venus* has been transferred by Manuel Serpa to George Alameda. . . . *Mary E. Petrich* is now the *American Queen*. . . . other changes include *Star of the Sea* from National Marine Terminal to National Marine Terminals of Wilmington, Delaware; and *White Star* by John Tasso to White Star Fishing Co. of San Juan, Puerto Rico.

George R. Luckey of the "luckey" Marine Radio business, San Diego, reports the firm has just installed its 312th Bendix automatic direction finder, aboard the tuna vessel *United States*.

Sardine Yield Far Off Previous Catch

● The Southern California sardine season's last dark, with the season ending January 31, midnight, produced about half that of the 1955-1956 season. The February fishing period gave 477 tons to net boats, producing approximately 14,560 cases.

Mackerel, on the other hand, tallied 8,174 tons and 166,617 cases. Anchovies: 2727 tons, 71,245 cases, approximately.

For fishermen the price of Jack and Pacific at mid-February was $42.50 and $25. Anchovies were selling at $25 per ton. Several flights by California Fish and Game Cessna plane have been conducted to study pelagic fish distribution off Southern and Baja California and a section of waters south of Half Moon Bay.

One report indicated that fewer sardines were observed from the air during the 1956 season than in the past two seasons. Pacific mackerel appeared still abundant. Early in the season there was, based on aerial observation, a fairly good sardine resource for commercial fishing, but this condition changed as the season drew to a close.

Tulloch-Western Moves

Tulloch Fisheries, Ltd., and Western Fishing Co., Ltd., both of Vancouver, B. C., were consolidated with the first of 1937 and moved to a new and improved location at 2199 Commissioner St., Vancouver, B. C.

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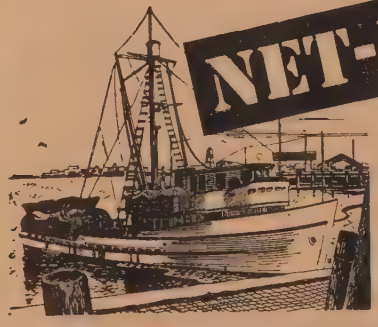

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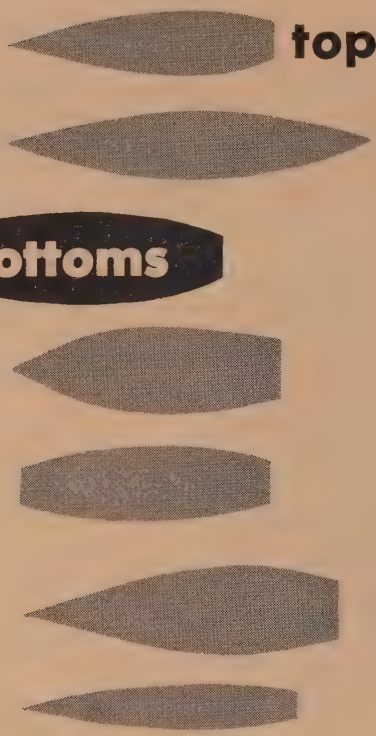

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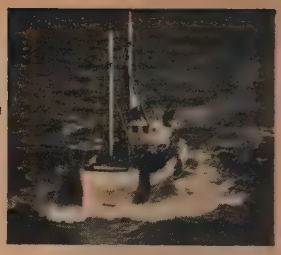

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Halibut Commission, on the left, meeting with its Industry Advisory Committee. Reading from the lower left and clockwise around the table—S. V. Osere, Seton W. Thompson, Mathias Madsen and J. W. Mendenhall, commissioners; William Love, Harold Henricksen, William H. Brett (leaning forward), R. M. Winslow, K. F. Harding, Lars Solway, Haakon Selvar. Commissioners not shown: Richard Nelson and Harold Helland. Advisors not shown: E. A. Ruthford and Enoch Lund.

Leverage to Westward —

Halibut Season Opens Early, With No Quota in Aleutian-Bering Area

● New cards were dealt the halibut fleet this spring by the International Pacific Halibut Commission after a week of shuffling.

They call for a May 1 opening in all areas.

Fishing from this date until October 15 is provided in Areas 1A and 3B, the extremities of the range of the halibut fishery.

These areas will have no quotas. Catch all you can.

Moreover, there'll be only one fishing season in Area 3A, but the catch quota will be upped 2,000,000 lbs. to 30,000,000 lbs. to enable the fleet to take as much as before, but in a shorter, more compact period of the year.

Early Opening Points

● These are major changes, involving shifts in policy as well as in regulations; and they have given rise to some rather penetrating questions, such as:

What is involved in the earlier opening of the season? Who sought it? What will be its effect?

● In a memorandum the staff of the Halibut Commission commented thus:

"Two main biological considerations are involved in deciding upon an opening date. Fishing on the various grounds should commence at a time and continue throughout a period when the stocks to be fished are available. Year-to-year changes in opening dates should be made gradually, so as to permit comparison of data.

"Assuming that there will be a program of voluntary lay-ins between trips, and fishing in the latter part of the summer by reason of lay-ins or a second season, opening the areas in early May would satisfy the above considerations for most grounds. From time to time fishing before the beginning of May may be necessary on a few grounds fully to utilize their stocks".

● *Who sought the early opening?*

Many elements of the fishing fleet, and particularly those boats suited or equipped for salmon fishing, whose owners usually are anxious to get the halibut season out of the way early so they can switch to salmon fishing without missing any of the season.

Substantial support for an early opening also appeared among the dealers, although there was some difference of opinion, which appeared to be based on the degree of clean-up in the stocks of the various elements in the trade.

There was also some opposition based not so much on current considerations as on a point of principle, which was stated thus:

"Opening dates should not be changed without a year's advance notice, as the dealers accumulate their storage stocks for a selling season indicated by the annual seasonal regulations. Any change in length of season may jeopardize their positions and upset the market."

● *What will be the effect of the early opening?*

Full answer to this question connot be given at this time, but a number of conclusions are indicated:

1. The Canadian share of the catch probably will rise, as the early opening favors full participation by the big fleet of all-purpose seiners which will have finished herring fishing and at the same time will be able to runout

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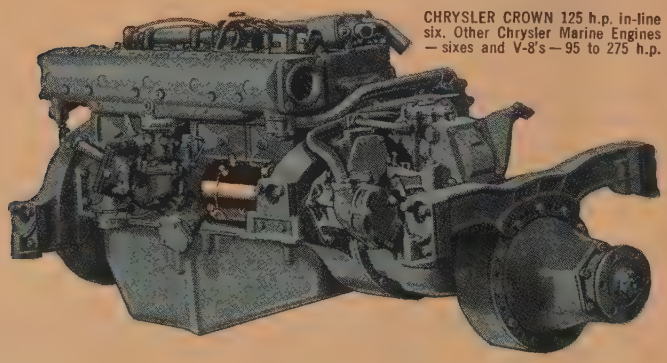

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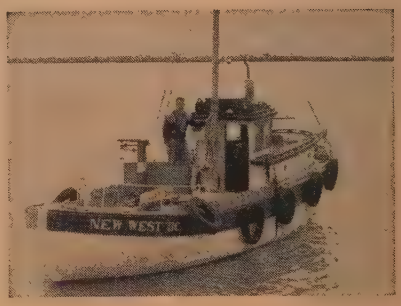

"LADY-L" owned by John Robinson, operated for FRANCIS MILLERD & CO. LTD., powered by Chrysler Crown Engine.

LOYAL LADY owned by M. Matsumura, operated for BRITISH COLUMBIA PACKERS, LIMITED, powered by Chrysler Crown Engine.

the halibut quotas before they have to switch to salmon.

2. New halibut will come on the market probably 20 days before they occurred in 1956, because in that year the fleet voluntarily remained in port for eight days after the official opening May 12. At presstime there was no indication that such a delay in initiating fishing would be invoked this year.

Dealers generally reported their stocks so near exhaustion that they welcomed the early opening as providing needed replenishment.

Westward Emphasis

● *Why the emphasis on fishing to Westward, as reflected in the May 1-October 15 non-quota season for Area 3B?*

The Halibut Commission staff gives two points in answer, saying:

"More and earlier fishing in Area 3B is necessary to find out (a) whether parts of the stock are escaping the fishery, as some tagging experiments suggest; and (b) whether maximum justifiable utilization is now being obtained as required under the North Pacific Fisheries Convention".

The staff gives further reasons for encouraging increased fishing in this area by saying:

"In conjunction with 1956 tagging experiments it would provide information about the seasonal movements of halibut between Areas 3A and 3B, and between the grounds north and south of the Alaska Peninsula; and

Capt. Jacob Knutsen, skipper of the halibut schooner **Grant** and a long-time mainstay of the Fishing Vessel Owners Association, is the Seattle halibut fleet's new president for 1957.

to answer practical questions such as:

"Do Bering Sea fish migrate to the south of the Peninsula in winter? Would they be available to a spring fishery in the latter location? Is a spring and summer fisheries in Area 3B necessary to assure maximum justifiable utilization of the stock there? Do migrations of fish from the central and western parts of Area 3A to Area 3B in the spring and early summer make a fishery in the latter area essential for full justifiable utilization of the Area 3A stock?"

● In short, the Halibut Commission wants more fishing of the far Westward stocks to prove in a practical way with a commercial fishery some of the points indicated by its tagging and age studies.

Further, it is setting up a premium to attract the fishing it wants—a long-run, no-quota designed to appeal to the gambling instincts of the fleet capable of fishing these far banks.

● There's a second aspect to the leverage. By discontinuing the split-season in Area 3B, the commission assures early closure of that productive region, where fishing will end at a time of year when the vessels can be expected to be willing to try a trip or two further to Westward, on Sanak Bank, Davidson Bank, or through The Pass on the Polaris Spot, and along The Edge.

● Decision as to the regulations to be recommended for the 1957 season was reached by the Halibut Commission only after a week of discussion and conference with its staff, headed by H. A. Dunlap, director, and F. Heward Bell, assistant director, as well as its two advisory groups—the fleet Conference Board, and the Industry Advisory Board, personnel of which is:

Conference Board—Reuel M. Fleming, Juneau; Frank See, Hoonah; William Love, Petersburg; Harold T. Henricksen, Ketchikan; William H. Brett and Barney Roald, Prince Rupert; Olaf Maurstad, Lars Soleway and Barney Madsen, Vancouver; Robert Jensen, Ragnar Tangen, Enoch Lund, Clarence Nordahl, William Selset, Arne Einmo, Haakon Selvar, Paar Reese and H. E. Lokken, Seattle.

Advisory Board—

Fishermen: William Love, Alaska; William H. Brett, British Columbia; Enoch Lund, Puget Sound;

Vessel Owners: H. T. Henricksen, Alaska; Lars Soleway, British Columbia; Haakon Selvar, Puget Sound;

Dealers: E. C. Phillips, Alaska; R. M. Winslow, British Columbia; E. A. Ruthford, Puget Sound.

The full commission was in attendance at the meetings: *United States*: Seton H. Thompson, J. W. Mendenhall and Capt. Mattias Madsen; *Canada*: Richard Nelson, Harold Helland and S. V. Ozere.

Mr. Thompson, president during the week, completing his term as chairman, and was succeeded by Mr. Nelson for 1957.

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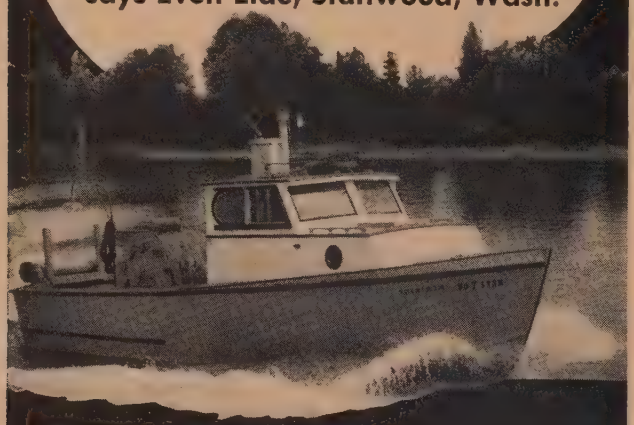
"Well pleased with performance of NORDBERG *MARLIN* in my 31′ Gillnetter" says Even Eide, Stanwood, Wash.



Another satisfied Nordberg owner heads out to the salmon grounds of Puget Sound . . . it's Even Eide of Stanwood, Washington, at the wheel of his new 31′ V-bottom gillnetter, *ROAMER III*. Designed by Edwin Monk and built by the Northwest Boat Shop, Everett, Washington, *ROAMER III* is powered by a 110 hp Nordberg *MARLIN*.

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Clipper "Leona C" is Lost On Reef in the Galapagos

• From the tuna clipper fleet, as this issue of *Pacific Fisherman* went to press, came the news of the loss of the *Leona C* after striking a reef near Isabella Island in the Galapagos.

Joseph Penacho is managing owner, and Manuel Gonsalves, San Diego, skipper. The boat was built in 1945 in Tacoma and was fishing for Star-Kist. She had about 120 tons of tuna aboard when the loss occurred. She had left San Diego early in January and had been on the banks about 39 days. The *Leona C* was the former YP-637 and conversion was by the former Lynch yard in San Diego.

The 12 crewmen were taken aboard the *Chicken of the Sea* to Panama. Managing owner Penacho reported the hull was smashed when she hit the reef. This is the first 1957 loss in the Southern California fleet.

• Contract between the American Tunaboat Association cooperative and the canneries is to expire April 1. Whether or not there would be a problem on price of tuna is an open question. Yellowfin is now selling for $270 and Skipjack, $230. Canners would like to see a downward revision.

In the first week of February nine clippers unloaded at San Pedro and six at San Diego; while only one purse seiner delivered to a San Pedro cannery.

Sailing of purse seiners has been delayed because of stalemate in agreement with canneries in the Los Angeles area in negotiations conducted by the Fishermen's Cooperative Association. However, as of February, the 1956 agreements with all canneries packing tuna had been extended, at the 1956 prices, unless notice is given by either party. *New Sea Rover* and *Marauder* were in port with loads of tuna following the settlement, and the *Pioneer* was reported on her way home.

Hearings before the National Labor Relations Board in Los Angeles as to which fishermen's union should represent the San Pedro crews were still to be held, and nothing conclusive. The two unions involved are the ILWU 33; and the AFL-CIO Seine and Line fishermen's union.

• Landings by the domestic fleet from January 1 through February 9 were lagging behind those of 1956 for a similar period, and Skipjack was leading Yellowfin.

The first Bluefin of 1957 came to San Pedro from the *Stella Maris*, taken on the high seas off Mexico. Some went to the fresh fish market; some to Van Camp for canning. Skipper of the boat is George Fukuzaki.

Wrangell Seiner Guilty Of Impeding Stream Guard

Plea of guilty to interfering with a federal officer—missing stream guard Charles Rudmann of the FAWS enforcement service — was entered in Juneau in February by Bert C. McCay, Wrangell purse seine skipper. He admitted releasing Rudmann's skiff at Port Houghton last August.

Although Hudmann has been missing since that time, and an Alaska court has presumed him dead, no charge of violence was placed against McCay. The seiner was also arrested and convicted last fall of illegal fishing in Port Houghton.

He was fined $1,000 on each of the two charges.

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Austrem of "Commander" Wins Trip to Japan

Captain Olef Austrem of the purse seiner *Commander* won recently a 10-day, all expense trip to Japan to visit the net-making facilities of Momoi Fishing Net Mfg. Co.

This type of netting is handled in the Southern California area by Wm. Hutchison & Associates, and is advertised in *Pacific Fisherman*.

The announcement of Captain Austrem's trip was made at a sukiyaki dinner, at which John Zankich, president of the Fishermen's Cooperative; Mason Case, general manager; Matt Dragich, manager, and Tony Pisano, a member of the FCA board of directors, were guests.

From Wm. H. Hutchison & Associates Edward Rittenhouse, general manager, and Raymond Stewart, sales manager, attended the dinner.

From Consolidated Factors came Mr. Carmine Mineghina, sales manager, and Jack Barney, manager.

Mr. Mike Yoshizumi, overseas manager of Momoi, located in Ako, Japan, was there, and, of course, Ben Ichiyasu, who represents Momoi in Southern California. He reports that the amount of Momoi Hi-Test netting has increased considerably in 1956. Momoi manufactures Marlon, Livlon, Nylon and cotton fish netting.

Fisherman's Golden Wedding

Sebastiano Crivello, well known retired Monterey fisherman, and his wife celebrated their 50th wedding anniversary with a large dinner party last month. The Crivellos are the parents-in-law of Guido Davi, former Monterey fisherman and now in the insurance business, and also attending the party were James Davi, J-D Packing Co., San Francisco, and Buster Davi, fisherman for the Alaska Packers Association at Naknek, and a large number of other fishermen and their wives and families.

"Bering Sea" Readied For Japan Delivery

The steel trawler *Bering Sea*, which was operated by Al Davies of Tacoma in the Chilean trade in frozen swordfish, has been sold to Japanese interests and late in February was being overhauled at the Western Boat Building Co. yard, Tacoma, for delivery to Japan.

New Zealand Builds Fishing Craft to Puget Sound Plans

● Travellers say that New Zealand more than any other area in all the world resembles the Pacific Coast of the United States from Puget Sound to the Harbor of the Sun at San Diego —reversed north-for-south of course.

Climate is much the same. Both lands have high mountain ranges near the sea, swift stream and abundant fish.

As a matter of fact, it is in New Zealand that the most successful, the only really successful transplants of North Pacific salmon have been made.

Yes, the Pacific Coast of the United States and New Zealand are much alike in many ways—and one of them to an interesting degree is in their fishing fleets.

How so?

Because in New Zealand new fishing boats are being built from plans and designs which were evolved in Seattle and showed themselves outstandingly successful in the fisheries of the Pacific Coast of North America from San Diego to Bering Sea.

● For a number of years H. C. Hanson, Seattle naval architect, has taken an interest in providing such proven plans for overseas builders, and the New Zealand fisheries have been among the foremost in building fishing craft from Hanson plans.

Currently in Dunedin, N. Z., there is building a 46′ Hanson craft which is to be used as a dragger, trawling to 80 fathoms with a German diesel for power. Another boat, 44′, after the *Canadian Star* design, is to be built for line and spinny lobster fishing.

In ordering the plans the builders enclosed photographs of one of the successful Hanson boats which they built last year, a 40-footer with a German air-cooled diesel. She is used primarily for fishing spinny lobster, or crafyfish, as they are properly called in New Zealand.

Johansen Article Read Into Congressional Record

The article by George Johansen, secretary-treasurer of the Alaska Fishermen's Union, which was reproduced on Page 20 of the February number of *Pacific Fisherman* under the title "Dangers in Disunity", was read into the *Congressional Record* in February by Congressman Tom Pelly of Washington.

It dealt with the desirability of maintaining harmonious policies of the United States and Canada in matters touching their fisheries.

Second All-Purpose Seiner Is Launched

Blue Ocean, sistership of the *Silver Bounty,* was launched recently from the Matsumoto Shipyard ways at Vancouver. She is 72′ by 21′ and powered with a General Motors tandem diesel. She is the property of Percy Pierce of Prince Rupert.

A third vessel to the same plans is under construction at the Matsumoto yard for the Haughan brothers of Prince Rupert.

These new Canadian craft are called "all-purpose seiners", being designed and equipped to be aqually serviceable in the halibut, herring, salmon or trawl trades.

Monterey Fishing Slow

Monterey sardine fishermen who returned home from San Pedro during the January "light of the moon" reported the present season one of the worst in history. The California State Fish & Game Department confirmed this appraisal with the statement that the catch in December was slightly ovre 1700 tons, bringing the sasonal total to about 31,000 tons with less than a month left of the season.

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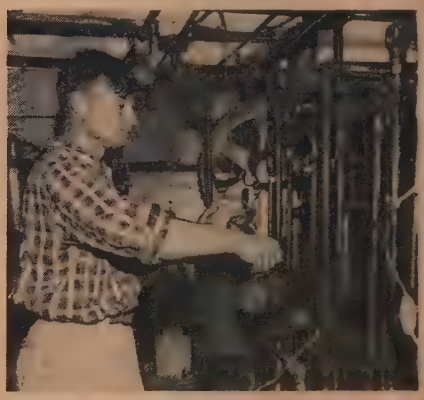
Mr. Salvatore Piazza, above, owner-skipper of M/V Salvatore Padre, has operated his 60-foot fishing boat for 15 years—using RPM DELO Oil exclusively. Vessel's 110-horsepower Atlas diesel still has original rod and main bearings. Engine of this vessel has been torn down twice for inspection—only parts replaced were a set of piston rings, installed in 1947. Mr. Piazza says, "This engine is still very clean and smooth running. RPM DELO Oil has kept it that way for 15 years. I wouldn't use any other."

M/V Salvatore Padre, operating out of San Francisco, goes as far south as Mexico fishing for salmon, albacore, sardines, crab.



Engine Room is supervised by Mr. Piazza's son. Latest engine inspection showed no carbon, sludge, or deposits of any kind.

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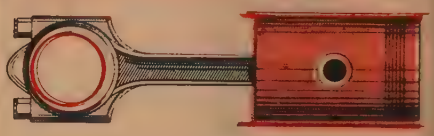

Metal-adhesion qualities keep oil on engine parts, running or idle. Anti-oxidant resists formation of lacquer. Detergent keeps parts clean. Special compounds prevent corrosion of any bearing metal. Inhibitor resists foaming.

For More Information contact your Standard Fuel and Lubricant Engineer or Representative, or write 225 Bush St., San Francisco 20, California.

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B. C. Smelt Fishermen Find Trawls are Effective Gear

• Fraser River fishermen harvested a catch of about 400,000 pounds of eulachons (smelt) this season, most of the catch being processed into packaged frozen smelt.

Fraser river fishermen have tried out several new forms of gear in the eulachon fishery this year. Converted shrimp trawls and a number of experimental hoop trawls have been tested. A modification of one or more of these types of gear may eventually replace the eulachon gillnet which has been used for many years.

In this spring eulachon fishery highest catches were made with converted shrimp trawls towed by two gill-net boats. Fishermen have found this gear more effective in catching, and easier to clear the net of fish after completing the drag.

A trawl net hung on a 20′ diameter hoop which drags the net clear of the bottom, has also proved effective. With this gear a slip knot on the cod end enables the catch to be released into the hold and does away with the tedious picking necessary with gill nets.

Columbia River Fishing Closed Above Bonneville

Closure of Columbia river commercial fishing above Bonneville dam became official this spring.

The 1957 Columbia river commercial fishing regulations of Oregon, according to M. C. James, state fisheries director, make three other major changes.

A minimum mesh size of 5¼" for gill nets that has been in effect for the past two years during the Blueback salmon season has been dropped this year. Biologists of Oregon and Washington anticipate a larger return of Blueback to the Columbia river this year and see no need for continuation of the minimum mesh size restriction.

To provide additional protection for Silver and Chum salmon runs in the Columbia, weekly closed periods during the fall fishing season have been increased from 72 to 96 hours, beginning at 6 p. m. each Friday. Also during the fall season, an additional 11-day closed period from October 18-29 will be in effect.

Primarily at the request of commercial fishermen on the Oregon side of the river, the fish commission reestablished a maximum length of 250 fathoms for gill nets used in the Columbia river. A similar restriction has previously been in effect for Washington fishermen.

The Oregon commission also has announced its intention to seek authority to make emergency changes in regulations (Columbia river only) by shortening the two-week period now required for hearings and publication of orders. The Washington state fisheries director already has authority to adjust commercial fishing regulations on short notice. A similar procedure in Oregon is advocated by the fish commission to meet unforseen shifts in the timing or abundance of salmon runs in the Columbia river.

Ernest Schoenwald, Salmon Operator, Passes Away

Ernest Schoenwald, for many years a factor in the salmon business, as an Alaska packer and Seattle broker and distributor, died in Seattle early in February at the age of 72. He had been in ill health for about a year.

Mr. Schoenwald for many years owned the Petersburg Packing Co., which was sold in 1929 to Pacific American Fisheries. In recent years he engaged in the salmon sales business, specializing in export and import trading.

Shrimp Boats Added To Mexican Fleet

Raymond Stewart of William H. Hutchison and Associates of San Pedro reports to PACIFIC FISHERMAN that Tomas de Rueda, Jr., operating the Astilleros Tomas De Rueda Jr., S. A. firm of Mazatlan, Mexico, has under construction a number of shrimp trawlers. It is anticipated that the total, when the program is completed, will be about 40.

The boats are to be equipped with Bendix depth recorders, DR-15, RR-7As and DR-9. In addition the Hutchison firm, with store and warehouse in Mazatlan, is equipping the vessels with Stroudsburg winches and Apelco radiotelephones.

Mr. Stewart also reports that a Panamanian firm is now building shrimp boats to be operated from Panama by a Panamanina packing firm.

This is increasing evidence that the production and exportation of shrimp, from a growing number of companies, most of which comes to the United States, are of great interest to consumers in the United States.

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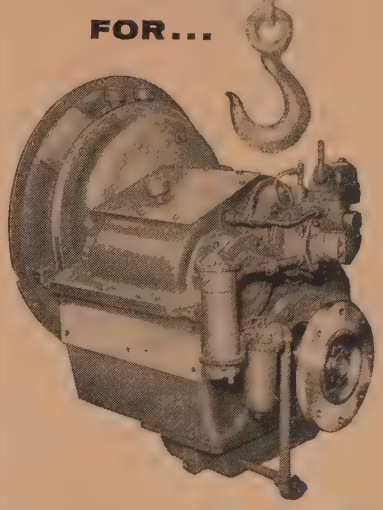

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Japan-Soviet Commission Shapes 1957 Fishing Pattern

● Size and shape of Japanese high seas salmon fishing operations for 1957 are expected to be determined in the course of the Soviet-Japanese Fisheries Commission meeting which was in progress in Tokyo as this issue of *Pacific Fisherman* went to press.

Out of the commission meeting is expected to come something more than the pattern of 1957 operations—an indication of the attitude of the Soviet Union in the matter of international cooperation in the conservation of ocean fisheries.

The Japanese gave no indication before the meeting of the scope or character of the operations they plan for 1957. Obviously, they expected the matter to be a prime subject at the commission meeting.

The Russian delegation was headed by A. M. Kutareff, first deputy fisheries minister of the Soviet government.

Chairman of the commission was chosen in the person of Tsunejiro Hiratsuka, while P. A. Moiseev, acting chief of the Soviet Fisheries and Oceanographic Institute, Moscow, was selected as vice chairman.

"Pacific Star" Beached

The well known 85' purse seiner *Pacific Star,* owned and skippered by Sam Lonero for many years, was blown on the beach at Monterey by a 40-mile wind last month.

Considerable damage was done to her planking, but she was finally removed from the beach by a winch mounted on Municipal Wharf, after efforts by a Coast Guard vessel, and the purse seiner *Frances Marie,* Franceso Bellante, skipper, proved unavailing. *Pacific Star* is now under going repairs at Pacific Drydock & Repair Co., Oakland.

Canadian Kokanees Will Restock Japanese Lake

A shipment of 100,000 eyed eggs of Canadian landlocked Sockeyes, generally known as "kokanees" or "yanks", and in Idaho as "redfish", arrived in Japan this winter as a gift from the Canadian government.

They were taken to the hatchery at Nikko, the shrine city about 90 miles north of Tokyo, where they will be hatched and reared for planting in Lake Chuzenji, one of the famous resort lakes of Japan near Nikko.

This lake, as well as a number of others in Japan, formerly contained a population of land-locked Sockeyes called by the Japanese "Hime-masu", which appear to have been closely similar to the "kokanee", if not identical with it.

High Helix hoists material from tuna preparing tables in Westgate-California plant at San Diego 30' at a 45° angle to the reduction plant reserve hopper. Being installed by W. A. Carpenter, M. F. Kirby and Phil Alcala, the helical conveyor was a big item in a major maintenance job, which also included placing heating coils in the canning oil reserve storage tank on the rooftop.

1956 Closed With Big Herring Catch in B.C.

British Columbia fishermen in December landed fish to a total value of $1,743,000 compared with $1,832,000 for the same period in 1955.

A total catch of 56,420 tons of herring, valued at $1,656,000 was the major item. Figures for the comparative period last year were slightly higher.

Spring salmon landings by trollers were seasonally light, 25,000 pounds of dressed red and white springs bringing in 2,000.

Sole production of 93,000 pounds was only 47 percent of last year's figure and was valued at $7,000. Grey cod landings were down 50 percent with 95,000 pounds valued at $5,000. In the ling cod fishery a total catch of 16,300 pounds netted fishermen $2,000 while 15,000 pounds of black cod brought in $3,000.

Production of shellfish also declined sharply as compared with last year. Clam diggers marketed only 157,000 pounds for $4,000, compared with 621,000 valued at $17,000 last year. Crab landings were short 25 percent at 63,000 pounds valued at $7,000. Shrimp fishermen landed less than half of last years total with a catch of 65,000 pounds worth $10,000.

Alistair Fraser Leaves Canadian Fishery Post

Alistair Fraser, executive assistant to Canada's Fisheries Minister James Sinclair since 1952, has resigned from this post in order to enter the practice of law in Victoria, B. C. His resignation took effect February 15.

Mr. Fraser practised law in Vancouver in 1951 and engaged in personal practice in Prince Rupert the following year.

While executive assistant to Mr. Sinclair, Mr. Fraser travelled extensively, and in the summer of 1956 accompanied the minister on a journey to the Scandinavian countries and Moscow, where they attended the annual meeting of the International Whaling Commission at which Mr. Sinclair represented Canada. They returned by way of Siberia, the Pacific Coast of the U.S.S.R. and Communist China. Mr. Fraser himself was the Canadian member of the Whaling Commission in 1956.

Jack Salmon Better

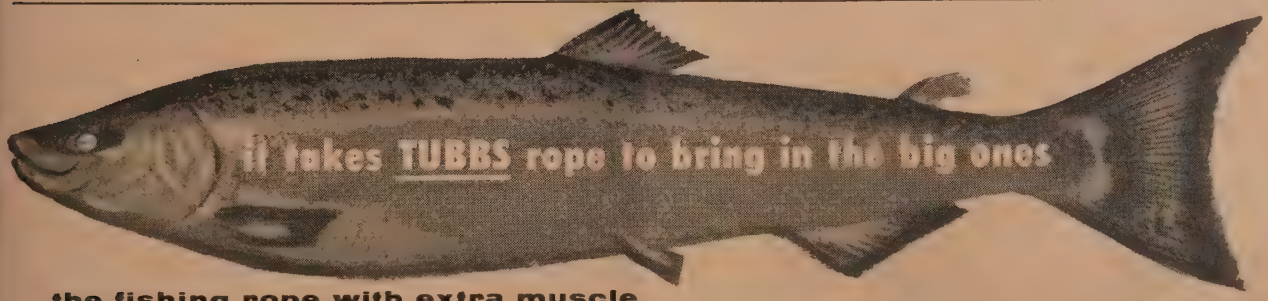
Jack Salmon, president of the Oceanic Sales Co., who suffered a severe illness some months ago, returned to his Seattle headquarters early in the spring greatly improved in health after two months in Hawaii. He showed-up immediately at the Northwest Salmon Canners Association luncheon to represent Oceanic—Leo White and Jim Stephens both being at the National Canners Association and National Food Brokers Association conventions.

NCA Northwest Branch Headquarters Shifting

Effective March 1, the National Canners Association, Northwest Branch, office will be established in its own building at 1600 Jackson Street, Seattle 44, Wash.

The office, chemical laboratory and inspection department will all be in the one location.

Carlos Campbell, national secretary of the association, has been invited to Seattle for the Salmon Cutting March 12 and 13, and to dedicate the building at that time.



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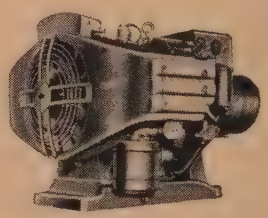
Over 500 trawlers of this type are equipped with Onan Electric Plants.

for dependable light and power!

There's an Onan electric plant or generator the right capacity and type for craft of every size and purpose . . . shrimpers, trawlers, tugs, workboats of all kinds. They speed work and save time by operating electrical equipment such as bilge pumps, compressors, radios, pressure water systems and floodlights. Smooth-running and dependable; compact and easy to install.

ONAN Air-cooled plants
Gasoline-powered—400 to 10,000 watts A.C. Battery charging and dual-purpose models.
Diesel-powered—5,000 watts A.C. (shown at right), 3,000-watt A.C. and 3,000-watt, 32-volt battery charger.

ONAN Water-cooled plants
Gasoline-powered—400 to 3,000 watts. A.C., battery charging and dual-purpose models. Diesel-powered—3,000 watts A.C. and dual-purpose A.C.-battery-charging model.



Model 3DSP, 3KW Diesel-powered

1-cyl. battery chargers 500 to 1500 watts

Separate Generators 1½ to 35KW

Write for Folder of all Marine plants

D. W. ONAN & SONS INC.
3721 University Ave. S. E., Minneapolis 14, Minnesota

About "Sallie" — Northwest Boat Yard, Everett, Washington, built this 31-foot gill-netter and installed her Monel shaft. Except for longitudinal frames and keel, she's constructed entirely of plastic-coated plywood. Edwin Monk, Seattle naval architect, designed her.

Monel helps Sallie keep out of trouble!

"Sallie" fishes shallow, muddy waters where salmon can't see her gill nets. When water isn't muddy, she goes out at night.

So "Sallie" *could* get into trouble. *Shafting trouble!* Shallow water and night-time fishing mean greater danger of hitting bottom — more chance of a bent or broken shaft. Muddy waters increase the danger of severe shaft wear.

"Sallie"'s Monel shaft protects her against *both* dangers. This sturdy nickel-copper alloy is extra *tough* — to withstand severe shocks. It's extra *hard* — resists wear and stays smooth longer.

A Seagoin' Monel shaft gives *any* fishing boat these advantages *and more.* It's extra *stiff* — less likely to whip. It's extra *strong* — can handle higher horsepower safely. And it's highly resistant to salt water corrosion.

Monel nickel-copper alloy *lasts longer* in shafts and other marine equipment: in gas and water tanks, galley equipment, rudder stocks — in all fittings and fastenings subject to excessive wear and corrosive attack. For equipment that will give long, trouble-free service on *your* boat, make sure it is made of Monel alloy. Monel equipment is available from your local boat yard.

THE INTERNATIONAL NICKEL COMPANY, INC.
67 Wall Street New York 5, N. Y.

INCO TRADE MARK **Nickel Alloys**

Monel "... *it's the Seagoin' metal*"

Monel and Seagoin' are registered trademarks of The International Nickel Company, Inc.

FOOD FISH MARKETING

Section of PACIFIC FISHERMAN--

News and Views of National Trade in Fish and Shellfish

February, 1957

Tuna Foundation Marshals Drive for Lenten Selling

● Inventory of canned tuna in Southern California was considerably reduced early in the year, although production from the fleet of tuna for canning was leading. Prices of canned tuna, f.o.b. canners' terminal, were reported holding to quotations of a month ago, for both advertised and private labels.

Sales managers were preparing for the Lenten season, beginning with Ash Wednesday, March 6, and the Tuna Research Foundation at Terminal Island, associated with the California Fish Canners Association, has prepared through J. Walter Thompson a three-way advertising program in magazines, newspapers, television and radio. This year the tuna producers are working with the Carnation Milk Company and the Macaroni Institute. Home economists in newspaper, television and radio are always most cooperative in giving recipes for tuna as a high-protein food.

● Gilbert C. Van Camp, president of Van Camp Sea Food Company, stated in a recent report to shareholders, employees and associates that: "Market surveys indicate an over-all increase in the domestic consumption of canned tuna of approximately 9% over the last calendar year. . . . Inventories are high, but the margin of profit in them is satisfactory and offers reasonably strong protection. The Lenten sales will reduce them materially."

In reference to Van Camp's own sales, Mr. Van Camp stated: "In the later part of October our prices on light meat tuna were advanced by 50c a case for chunk style and 75c for fancy tuna sold under our Chicken of the Sea and White Star brands. The benefits of this advance are not apparent in the figures for the six months just ended, but will be reflected in performance for the last half of the year."

Los Angeles Market

Presstime quotations by the U. S. Market News Service for Southern California canned fish, fob. packers' terminal, for cases of 48s unless otherwise noted.

Tuna—Advertised Brands	Per case
White, fancy, 7 oz.	$15.00-15.25
White, chunk, 6½ oz.	13.50-14.00
Light, fancy, 7 oz.	13.75
Light, chunk, 6½ oz.	12.00
Grated, 6 oz.	7.50- 8.00
Tuna—Buyers' Labels	
White, fancy, 7 oz.	13.00-13.50
White, chunk, 6½ oz.	12.00-12.50
Light, fancy, 7 oz.	11.50-12.00
Light, chunk, 6½ oz.	10.25-10.50
Light, chunk, 6 oz.	9.00- 9.50
Grated, 6 oz.	7.50
Sardines	
1 lb. oval, tomato	*9.00
No. 1 tall, brine	*6.50
5-oz. tomato, 100s	*7.75
Mackerel	
Pacific No. 1 tall, 15 oz.	5.50
Jack No. 1 tall, 15 oz.	5.00
Anchovies	
5-oz., 100s, tomato	5.50- 6.00
1-lb. oval, tomato	6.50- 7.00

*Last sales. Canners' quotations now withdrawn.

Snake River Trout Ranch Adds Frank Leahy

Frank S. Leahy has been appointed sales promotion manager of the Snake River Trout Ranch at Buhl, Idaho, according to Robert A. Erkins, President.

Mr. Leahy's experience includes special industry quality improvement work with the National Fisheries Institute and Technological Section Branch of Commercial Fisheries, U. S. Fish and Wildlife Service; National Merchandiser of Fish and Seafoods for the Great Atlantic and Pacific Tea Company; National Procurement Manager of Fish and Seafoods for Safeway Stores; and General Sales Manager for the Trade Winds Company.

Mr. Erkins also announced that the Ranch would introduce in test markets, a new quick-frozen 10-ounce retail pack which will be vacuum Cryovac packaged. This company was the first in the industry to vacuum Cryovac their entire quick-frozen institutional packs, which are currently distributed in 44 States and the District of Columbia under their 1000 Springs brand.

This is the company's 29th year of hatching, growing, processing and marketing the famous native-born Idaho Rocky Mountain Rainbow Trout.

Groundfish Fillet Imports Establish New Record

Preliminary statistical data indicate that the imports of fillets into the United States totaled 138.6 million pounds in 1956, according to the U. S. Fish & Wildlife Service. This was an increase of approximately 1.1 million pounds above the previous record of 137.5 million pounds received in this country in 1954. Compared with 1955, it represented an increase of about 8.5 million pounds. Eleven countries exported groundfish and ocean perch fillets to the United States during 1956. Canada (99.8 million pounds) led all other countries and accounted for 72% of the total. Iceland (27.1 million pounds) was a second place with 20% of the import total followed by Norway (4.1 million pounds), Denmark (3.0 million pounds), West Germany (2.0 million pounds), and France (919 thousand pounds). Imports from the United Kingdom, the Netherlands, Greenland, Miquelon and St. Pierr, and the Union of South Africa accounted for only 1% of the total.

Crest Importing Expands Into Larger Facilities

Crest Importing Co., San Diego sea food factors specializing in frozen shrimp from the fisheries of the west coast of Mexico, moved in February into new offices at 2547 Fifth Ave., San Diego 3, Calif.

J. W. Willis, who heads the Crest company, points out that the move resulted from the need of the growing business for larger quarters and facilities. The office now is in a building by itself, which was fully remodeled for its particular needs.

Telephone and TWX numbers remain unchanged, Belmont 4-3458 and Western Union San Diego 6307.

Crest Importing Co. distributes throughout the United States under its three well established brands — *Crest, Mark* and *Compass.*

Switch Canned Salmon Week To Period of Peak Supply

● Switched to apply leverage to canned salmon sales at the time of peak abundance, National Canned Salmon Week this year will be the last week in August, beginning the 23rd.

Traditionally, Canned Salmon Week —when there has been one—has come just before Lent.

In short, the shift is dictated by the interests—selfish if you will—of those who pay the freight for the fish festival. Timing is fixed for the period when most of the season's salmon is available for sale; at the time when volume movement can be expected. Thus the thinking behind Canned Salmon Week, 1957 model, is to take advantage of the end-of-season interest, the new-pack-purchasing urge, and to get the goods into distribution.

In the past the philosophy behind Canned Salmon Week was that it would provide a fillip to consumer buying, augmented by the Lenten emphasis, and thus would clear the retail shelves of salmon in advance of new production. Under this timing, the Effort, if successful, produced a condition requiring salmon several months in advance of new pack. In the old days, when the salmon supply was ample, this created no problem. Under current conditions the normal Lenten Lift to fish sales proved all that was needed to keep up a satisfactory into-consumption flow — providing the price was right.

● Another new aspect to Canned Salmon Week in 1957 will be its sponsorship. In recent years the promotion has been somewhat extemporaneous, the result of a feeling along the distributive elements of the business that something should be done to maintain the continuity of the salmon sales stimulant.

This year it will carry the official sanction and sponsorship of the Association of Pacific Fisheries. E. E. Murray, association president, has asked L. A. Petersen, sales manager of the New England Fish Co., to be chairman of the National Canned Salmon Week committee. Mr. Petersen expects to announce the make-up of the full committee shortly and to have the planning well advanced by the end of Lent.

Japanese Hold Cutting Of Salmon and Crab

Examination of 1956 salmon and crab pack samples, together with discussion of the results of other apprisals of 1956 quality, featured the annual cutting in Hakodate, Hokkaido, Japan, in February under the sponsorship of the Japan Canners Association, Japan Food Inspection Association, Ministry of Agriculture and Forestry Economic Bureau.

Inspection and quality control plans and policies for the 1957 season were discussed in detail.

Firm Name Changed

Tom Cattolica has changed the name of his wholesale fish firm on Fishermen's Wharf, San Francisco, from Cattolica & Lindwall to Cattolica Wholesale Fish Co. His former partner, Vic Lindwall, now operates a wholesale fish firm at Morro Bay.

Tom is back on the job after being hospitalized two weeks with a bad case of blood poisoning in his hand.

Powerful Advertising Push Builds Behind Fish in L. A.

● A sustained advertising program for fish and seafood products in the Los Angeles area is being proposed by the Southern California Fisheries Association.

It is proposed that on sales of "controlled" items brokers add to invoices, with the consent of the wholesaler, a fraction of a cent per pound and that this additional be paid into the Advertising Fund, and would be used only for advertising and promotion of seafoods. The controlled items are lobsters, lobster tails, shrimp, scallops, swordfish, groundfish fillets, oysters, frog legs and other imports.

The Advertising and Publicity committee of the Association is quoted as stating: "Imagine what an advertising program on a really big scale, 52 weeks a year, will do for seafood sales in this area. In a short time all will wonder why this was not done long ago."

Fillet cod was named the February seafood month by the Association, with Columbia River smelt, oysters and trout as companion items.

In preparation for the Lenten season, Lee & Associates, handling the Association's promotion, etc., made available full color Lenten season menu clip-ons.

In February fresh oysters, under the Safeway label were advertised at 59c for a 12-oz. jar; green shrimp, frozen, 12-oz., 73c, also by Safeway, and breaded, frozen, 10-oz., 69c.

Fresh Willapoint oysters were advertised in the San Diego area at 59c, 12-oz jar. In Los Angeles ads, Freeman Certi-Fresh fresh western oysters have been featured at 49c, 8 oz.

Retail prices on fish sticks have ranged from 29c for an 8-oz. package to 55c for a 16-oz.

Fish Canning Up 9.2%

Call for cans by the United States' fish and seafood industry in the first 11 months of 1956 increased by 9.2% over the year before, according to data released by the American Can Co.

Lauc Joins Halferty

John Lauc, who for a number of years has been sales manager of the Kayler-Dahl Fish Co., joined G. P. Halferty & Co., March 1 in a staff position, according to G. P. Halferty.

GREATNESS

I am the inferior of any man whose rights I trample under foot. Men are not superior by reason of the accidents of race or color. They are superior who have the best heart—the best brain. The superior man ...stands erect by bending above the fallen. He rises by lifting others.

—R. O. Ingersoll

BUMBLE BEE BRAND Seafoods
COLUMBIA RIVER PACKERS ASSOCIATION, INC. Astoria, Oregon

the BRAND of DISTINCTION
Another OXENBERG Product

PACKED BY
INDEPENDENT SALMON CANNERIES, INC.
KETCHIKAN, ALASKA
Office: BELL STREET TERMINAL, SEATTLE 1

Seattle Market

Prices openly quoted on the Seattle canned fish market at presstime of this issue for good quality stocks, fob. Pacific terminals, in cases of 48 cans, unless noted otherwise.

	Per Case
Alaska Salmon	
Red, talls	$33.00-34.00
Red, halves	21.00-23.00
Red, ½s (freezership)	19.00
Red, 4-lb. 12s (freezership)	34.00
King, talls	29.00-30.00
Pink, talls	23.00-24.00
Pink, halves	12.50-13.50
Coho, talls	29.00-30.00
Coho, halves	16.00-16.50
Coho, quarters	9.50
Coho, 4-lb., 12s	30.00
Coho, ½s, dietetic	17.00
Chum, talls	21.00-20.50
Chum, halves	11.50-12.00
Puget Sound Salmon	
Sockeye, ½s, m.f.	23.00
Sockeye, ½s, h.f.	24.00
Sockeye, quarters	13.00
Columbia River Chinooks	
Fancy halves	*24.00
Select halves	*17.50
Tuna	
Albacore, hand pack, fcy.	12.50-13.00
Albacore, chunk style	10.50
Lightmeat, hand pack, fcy.	11.00-11.50
Lightmeat chunks, 6½ oz.	9.50
Lightmeat chunks, 6 oz.	9.00
Blended, grated, 6 oz.	6.50
Dungeness Crab	
Fancy, 24 cans per case	9.50
King Crab, American	
Fancy, 1-lb. flats, 24	26.50
Fancy, ½s, 24 per case	15.10

Less $1 promotion allowance.

Wilbur-Ellis to Sell Peninsula Packing Plant

The Peninsula Packing Co., formerly the E. B. Gross Canning Co., Monterey, has ceased production of canned tuna and sardines, and will be dismantled and the equipment sold.

It is understood that the sale of the machinery will be handled through Wilbur-Ellis Co., San Francisco. In addition to the sardine and tuna canning equipment this plant contains a 10-ton per hour fish reduction plant.

One wall of the plant building was damaged in a fire that destroyed the old building of the San Carlos Canning Co. in December, and in January George Leutzinger, manager of Peninsula for a number of years resigned that position to devote his full time to Cannery Row Properties of which he is president.

Prices Apply Brakes To Canned Salmon Sales

Consumer buying of canned salmon during the first two months of the year showed the slowing effect of high prices.

Sales managers generally anticipated this, and found comfort in it rather than alarm; for the unsold salmon supply is so nominal as to make replacement of stocks from producers' hands an impossibility.

With six full months before significant supplies of new pack canned salmon can reach the consuming markets, it was evident at the first of March that supplies would suffice only for a moderate sales pace.

The primary market factors do not consider this as a generally desirable situation, and under normal circumstances would much prefer to see freer movement of salmon, and the kind of prices which bring it about. However, with the chronic shortage of supplies continuing, slow movement is counted preferable to the no-movement-at-all which would result from inventory exhaustion.

They Add Up To A Lot of Sales!

Oceanic
SALES COMPANY
3302 SMITH TOWER
SEATTLE 4, WASH.

1957 Tuna-in-Brine Quota Well Above 1956 Imports

Tuna-in-brine to the amount of 45,460,000 lbs. may enter the United States during 1957 at the low 12½% tariff rate, according to the U. S. Fish and Wildlife Service calculations on the basis of preliminary data. Brined tuna above this amount must pay duty at the rate of 25%.

Imports of tuna-in-brine for the first 11 months of 1956 ran somewhat short of the quota for 1957, being tabulated at 35,344,000 lbs. to Nov. 30.

The prospective 1957 brined tuna quota amounts to approximately 2,165,000 standard cases.

A proclamation, issued by the President on March 16, 1956, gave effect to an exchange of notes with the government of Iceland to withdraw tuna canned in brine from the 1943 trade agreement and invoked the right to increase the duty reserved by the United States in negotiations with Japan and other countries under the general agreement on tariffs and trade. The quota is based on 20 percent of the previous year's United States pack of canned tuna.

Frank S. Booth, Japan Fishery Pioneer, Slain

Frank S. Booth, an American who for almost 50 years was identified with the modern growth of Japanese fisheries as a world industry, was murdered in Kamakura, not far from Tokyo, at the end of January. His wife, a Japanese, was killed with him. The murder was committed by a 16-year-old boy who was robbing the house when detected by the Booths. He was arrested a few days later and confessed.

Mr. Booth was 76. He had been connected with Sale, Frazar & Co. and with Nichiro Gyogyo K.K. since about 1910. At the time of his death he was still serving Nichiro in an advisory capacity, beside being president of the Japan Engineering Co., providing technical services for Japan's canning industry.

Baffin Brand®...
World's Finest
Lobster Tails and
Lobster Tail Splits
National Sales Representative
Robert L. Stix, Inc., 260 West Broadway, N. Y. 13

Before the war Mr. Booth made occasional visits to the United States, and was widely known throughout the canned fish business in this country.

Sardine Fishing Holiday Proposed in California

A two-year moratorium on California sardine fishing would be imposed under terms of a bill introduced in the legislature last month by Senator Richard Richards, Los Angeles.

Sen. Richards said the move was an effort to determine if a two-year period of no sardine fishing would replenish the supply in California's coastal waters. He said that the bill had the support of the Ocean Fish Protective Association and the California Wildlife Federation—both sportsmen's organizations.

Fishing moratoriums have been suggested by scientists and some industry groups since the disappearance of sardines several years ago. None has ever been invoked however.

California just experienced the third worst year in the history of the industry in 1956.

Japan Shifts Members Of Inpac Commission

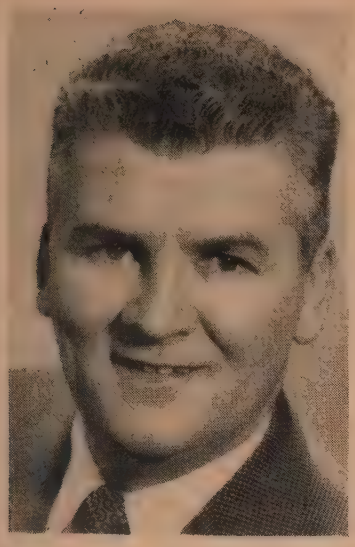
An expected shift in Japanese commissioners serving under the International North Pacific Fisheries Treaty was announced in February.

The change brings Kyuhei Suzuki, president of Nippon Suisan K.K., back to the commission, of which he was a member at the time of the first meeting in Washington early in 1954. He supplants Kenkichi Nakabe, president of Taiyo Gyogyo K.K., as the member representative of the ranking fishery interests.

The other new member is Masao Okai, director of the Fishery Agency of the Japanese government, also a former commissioner, serving on the delegation at the time of the 1955 meeting in Tokyo. He succeeds Sakari Masuda, who was a commissioner at the 1956 meeting in Seattle, and who has been transferred by the government to the Forestry Administration.

Ullin Gets New Patents

Carl G. Ullin, Seattle inventor of the "New Method" fish cleaning machine, used for dressing small fish such as sardines and herring, reports that he has been granted new American and Canadian patents on his machine.



LLOYD MONK

Townsend Buys Van Camp Columbia River Equipment

James R. Townsend, San Francisco fisheries consultant has purchased all the fish processing machinery in the Van Camp Sea Food Co., Inc., Astoria, Ore., plant (the White Star cannery), as well as the two reduction plants owned by the company at Warrenton, Ore.

The plant ceased operation in November, 1956, and the management decided to dispose of all property and equipment in Astoria and Warrenton, according to Mr. Townsend. The cannery had a capacity of approximately 2,000 cases per day and is complete with modern tuna canning equipment. In addition it contained sardine processing machinery with refrigeration equipment and a complete ice making plant with a capacity of 40 tons per day.

The Warrenton plant contains two complete California Press Manufacturing Co. reduction units with a total capacity for processing 30 tons of raw fish per hour.

All of the equipment will be sold, possibly in export areas, by Mr. Townsend, who maintains connections throughout the Pacific Basin.

Razor Clam Season Set for Late Opening

Opening of the commercial razor clam season on the Copalis Beach of Washington is expected to be delayed until April 1 this spring as result of recommendations of Washington Department of Fisheries biologists, who believe that, with a quota of 375,000 lbs., it is biologically and economically desirable to delay the opening one month from the usual March 1.

Miller and Monk Join Directorate of Canfisco

Two new directors—Donovan F. Miller and Lloyd H. Monk — were added recently to the board of The Canadian Fishing Co., it was announced by Roger T. Hager, president.

Mr. Miller joined The Canadian Fishing Company Limited in 1947. In 1948, he was appointed manager, personnel and industrial relations department, and in 1953, manager of the company's Home Plan operations. After attending the Massachusetts Institute of Technology on a Sloan Fellowship grant in 1954-55, Mr. Miller was appointed executive assistant to the president. He is a graduate in Commerce from the University of British Columbia, and holds his M.S. degree from M.I.T. During the war, Mr. Miller saw service overseas as a lieutenant in the R.C.N.V.R.

Mr. Monk, a native of New Westminster, joined the company in 1941, as a member of the production department. He later became manager of the company's Queen Charlotte Island operations, manager of the troll camp department and in 1951, manager of the Gulf of Georgia Plant. Mr. Monk was promoted to assistant production manager in November, 1956.

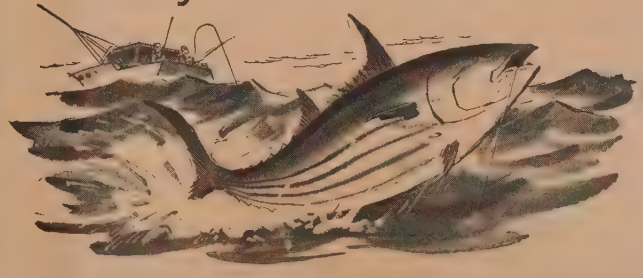
DONOVAN MILLER

Crabber Re-Powered

Joe Macchi, San Francisco, repowered his crab boat with a Chrysler Crown, purchased from Boicelli & Boss, Fishermen's Wharf, San Francisco.

Boicelli & Boss has been appointed San Francisco city and county distributors of Chrysler marine engines, according to Adolph Boicelli, owner of the company.

You can bet your last FIN on **Archer "S"** America's finest Soybean Salad Oil



If you'll *taste—smell*—and *try* Archer "S" Soybean Salad Oil, you'll see why so many tuna processors are using it.

These processors know that Archer "S" *keeps* the delicate tuna flavor. Helps build customer demand for their products—fast! That's because Archer "S" is refined and deodorized by a continuous ribbon process . . . cannot vary in quality. Every time you order Archer "S" Soybean Salad Oil, you get the *same* clarity of color . . . the *same* purity and blandness.

Archer "S" Soybean Salad Oil

Archer-Daniels-Midland co.

724 Investors Building, Minneapolis 2, Minn.

Manryo Netting

Needs No Preservative!

That's why a MANRYO FISHING NET is so rapidly and so widely gaining popularity in fishing circle in the world.

This photograph shows the operation of the 'Taisho-Maru', a tuna purse seiner, which belongs to The Taiyo Fishing Co., Ltd., one of the largest Fishing Companies in Japan.

The net is a huge MANRYO Purse Seine of two boats type and its length is 1800m, depth is 180m; it is so huge that it would be possible to be called as a mammoth purse seine.

If a net of such a huge size was made by cotton, there is no doubt that it would require a great trouble of treatment. Yet, MANRYO does not. A haul increases because fishermen are able to devote themselves to fishing.

It is natural that nearly all the purse seines are made by MANRYO.

MANRYO NETTING & ROPE

Resistance to Rot
Needs no drying
No slippage in knots
Much easier to handle
Low cost

Attention :
"Manryo" Netting and Rope either always bears this label our trade mark.

KURASHIKI RAYON CO., LTD.

Head Office : 2, Umeda, Kita-ku, Osaka, Japan
Cable Address : "KURARAY OSAKA"

UA-413

C. D. Day Aids Barthold In APA Headquarters

Clifton D. "Bud" Day who has been district superintendent in charge of fish operations for the California division of the California Packing Corporation, San Francisco, under D. T. Saxby, California division manager, was transferred last month to the Alaska Packers Association division of the company.

Mr. Day will serve as general administrative assistant to Alaska Packers Association president, Aubin R. Barthold, with headquarters in Seattle.

Bristol Bay Interest Keen in San Francisco

A great deal of interest is being shown by northern California fishermen in the upcoming Bristol Bay fishing season, according to Frank Taormina, Frank's Fishermen's Supply, Fishermen's Wharf, San Francisco, who during the salmon season is fish boss at the Alaska Packers Association cannery at Naknek.

Frank says that many of the old time fishermen want to go back to Alaska this season on account of the good season enjoyed by fishermen last year, but jobs are limited due to the rules of the Fish & Wildlife Service limiting gear on Bristol Bay.

King Crab trawl comes aboard the steel **Deep Sea** of Wakefield's Deep Sea Trawlers, Inc., on the Bering Sea grounds where she fishes much of the year. The heavy production noted in January and February of this year has come primarily from the more local fisheries in the vicinity of the Shumagin and Kodiak Island groups, and along the Pacific side of the Alaska peninsula.

King Crab Production Flush

● Crab abundance extends this season to King crabs in the Kodiak and Shumagin Island areas as well as to the Dungeness species along the coast of Washington, Oregon and California.

Fishing in the vicinity of Kodiak, and also in the Shumagins far to Westward, in January and February was reported "unprecedented" by one of the largest operators. At Kodiak most of the pack was being canned, with freezing favored elsewhere.

Peculiar thing about the King crab abundance, according to Lowell Wakefield, president of Wakefield's Deep Sea Trawlers, was that it followed by just about three months abnormally poor production during the fall period. At that time fishing was very disappointing and the crabs poor.

Then in December there came a sharp pick-up along the King crab coast, followed by even better results in January; and February to presstime was continuing excellent. Not only were the crabs abundant, large and heavy; but the weather was wonderful, one of those once-in-a-lifetime winters in central Alaska which never for a day interfered seriously with fishing operations.

● Low price and weakness of Dungeness crabs and crab meat exerted a depressing effect upon King crab sales in California during the first months of the present year, but this effect did not extend to the Middle West and Eastern areas, more important to the King crab business.

R. T. Barnes, accountant at Consolidated Fisheries, Inc., San Francisco, for the past 10½ years, is now accountant at Standard Fisheries, Inc. New offices have been built for the accounting department on the mezzanine floor.

Griffith MARINE LINE

...Gets rid of the JERK!

LIVE NEOPRENE SNUBBERS

Gets rid of damaging jerks, jolts, shocks. Special formula neoprene withstands prolonged exposure to sun and salt spray.

MOORING SNUBBER
Insert into mooring or lashing rope. Has scores of uses.
Length 22" Diameter ½"
Tested Strength 1,000 lbs.
$2.95

TOW LINE OR ANCHOR SNUBBER
Clamp or chain into anchor line or tow line to absorb pounding of waves.
Length 7 Diameter 2"
Tested Strength 4,000 lbs.
$45.00

TROLLING TUBING
3/8" O.D. x 1/8" I.D.....16¢ ft.
7/16" O.D. x 1/8" I.D....17¢ ft.

NEW DELUXE TUNA TROLLING TUBING
1/2" O.D. x 3/32" I.D.
Ocean-tested for two years.
35¢ ft.

TROLLING SNUBBERS
Standard 14" length with heavy metal line swivels and snaps for commercial fishing. Solid eye, swivel end .....$10 doz.
Kolstrand double snap or improved No. 9 snap with swivel end.....$12 doz.*
*With ball bearing line swivels .....$18 doz.

● AT YOUR MARINE DEALER
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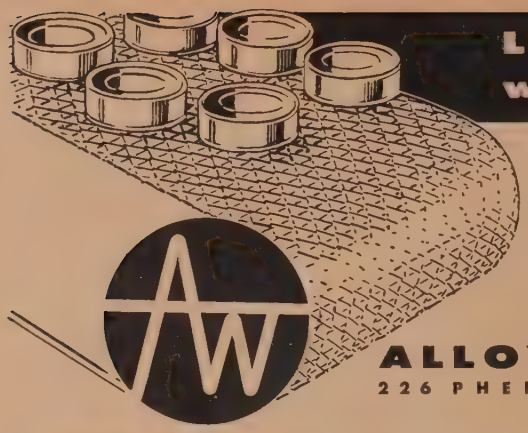

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MEXICO — SOUTH and CENTRAL AMERICA

Tuna Industry Pack Rate Good at End of 1956

Packing at a rate above a half-million cases per month, the California tuna industry ended 1956 at a slightly slower pace than the year before, but with a pack comparing closely with the largest it ever produced.

Case pack for December of white-meat tuna was 60,780 cases, almost the same as that for November. Light-meat pack was less in December than for November: 481,203 as compared to 564,052. In December there was a small amount of bonito canned.

Preliminary figures of San Pedro area pack, with Yellowfin and Skipjack, predominant, were 470,416 cases. San Diego, also working primarily on Yellowfin and Skipjack, produced for January approximately 264.514 cases.

Gus Strand, Grays Harbor Fisheries Operator, Dies

Gus Strand, who had been identified with fishery operations on Grays Harbor for 45 years, died at Aberdeen, Wash., late in January at the age of 74.

A native of Norway, he went to Grays Harbor in 1912 to manage a cannery, which he later purchased. He operated actively in most phases of the Grays Harbor fisheries as they developed.

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Fisheries scholarship of $500, offered annually by the Northern Commercial Co. to a University of Washington student was awarded in February to Lawrence M. Capri, left, a fisheries technology student. Volney Richmond Jr., president of the N-C Company, watches Capri at an experiment.

From salmon canning he moved into razor clam packing and eventually into crab and Albacore canning. In the 'thirties, when Washington legalized the reduction of pilchards, he entered that field, with considerable success until the catch of this fish dwindled and stopped.

Frank Wright Joins Pelican

Appointment of Frank Wright as superintendent of the Pelican Packing Co., where he succeeds Laurence Freeburn, was announced in February by P. S. Ganty, Pelican manager.

Mr. Wright went to Alaska in February for a pre-season survey. He is well acquainted with the Pelican operation, as for a number of years he was part owner and superintendent of the Pyramid Fisheries Co. at Sitka, purchased by the Pelican interests in 1955.

Steel Oil and Fish Scow For Naknek

H. C. Hanson reports that Weldit Tank & Steel of Bellingham is building a 72' by 24½" steel barge to operate in Alaska as a fish and oil barge 6' in depth, it will be Coast Guard-approved for its work of carrying oil, with a capacity of 46,000 gallons, and will carry about 40,000 fish in addition to that cargo. It will operate out of Naknek on Bristol Bay.

An upsurge in inquiries on steel work boats, and methods for their construction, has come from South America to his office recently, reports H. C. Hanson. He says the questions deal not only with the design of steel work boats, but the layout of yards for their construction as well.

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LINES and LEADERS

Nordberg Gasoline Engines Now Produced by Norseman Marine

Ralph G. Klieforth of Oshkosh, Wis., announces the formation of Norseman Marine to manufacture Nordberg gasoline marine engines. The administrative staff of Norseman Marine includes R. G. Klieforth, chairman; Clyde C. Smith, sales manager; J. W. Meerdink, chief engineer; Allen Hesse, export manager; Virgal Bean, quality control engineer; Jim Youngworth, advertising and sales promotion manager; Louis Carpenter, treasurer and comptroller; and Louis Grill, electric power and light plant division manager.

The following executives, formerly of Nordberg Manufacturing Company, Milwaukee, will continue their responsibilities with Norseman Marine: Harry Griswold, as chief sales engineer; Norman Wuotila as service manager. H. E. (Bud) Fellows, former Nordberg gasoline marine engine sales manager, will act as marketing consultant. Dave Graham will continue as Eastern District sales manager.

The complete "Nordberg" line, consisting of the popular 155-hp. "Knight", 130-hp. "Tarpon", 110-hp "Marlin", 110-hp. "Bullet", 105-hp. "Bluefin", 95-hp. "Arrow"" and 60-hp. "Colt", is now being volume-produced in Oshkosh. Distribution in all important boating areas throughout the United States, Canada, Latin America and overseas will continue to be handled by established Nordberg dealers.

Extra facilities and craftsmen have been assigned by Norseman Marine to meet the growing demand for the 1957 Nordberg models by owners and fishermen. Nordberg models are also being supplied in increased numbers to many of the country's leading stock boat builders who offer Nordberg as standard power.

Norseman Marine chairman is Ralph G. Klieforth, a leader in gasoline marine engine design, manufacture and merchandising.

In making this announcement R. G. Klieforth also stated that Norseman Marine is planning timely new additions to the line and that important announcements to Norseman distributors and the boating public are to be made soon.

He mentioned specifically that the following former Pacific Coast Nordberg distributors will continue as Norseman Marine distributors: **San Francisco,** King-Knight Co., 360 Jefferson St.; **Los Angeles,** In-Mar Co., Berth 192, Wilmington; **Portland,** Oregon Marine Supply Co., 235 S. W. First Ave.; **Seattle,** Pacific Fishing & Trading Co., 1403 West 45th St.

In **Vancouver, B. C.,** Gillen & Pike Ltd., 650 Denman St., have taken over the gasoline marine engine division of the Nordberg branch office in that city, with complete stock of engines and service parts.

RCA Brings "Jim" Pitts To Coast in Expanded Plan

Expansion of the RCA "Radiomarine" sales operation in San Francisco, to provide increased sales and technical services for RCA electronic marine equipment and systems, was announced in February.

C. D. ("Jim") Pitts, formerly field sales representative for RCA commercial electronic products in Washington, D. C., has been advanced to manager, "Radiomarine" sales, San Francisco district. The RCA "Radiomarine" sales office is located at 1075 Folsom Street, San Francisco.

The expanded operation will provide San Francisco boat and ship operators with speedier, more effective sales and technical services on RCA marine equipment.

Gray Marine Motors Names Bartlow as Chief Engineer

Appointment of Jack R. Bartlow as chief engineer of Gray Marine Motor Co. has been announced by John W. Mulford, president.

Mr. Bartlow, who joined the organization in 1955, has a background of experience in the development of high-output marine engines, including commercial types and also special engines. His staff will include Gray's designers and draftsmen, as well as the men in the experimental test department.

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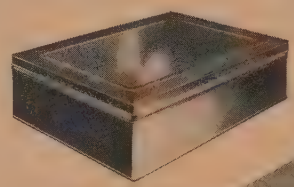

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Wall Rope Names New Pacific Sales Manager

"Wall Rope Works, Inc., manufacturers since 1830 of Manila and sisal rope, is pleased to annouce the appointment of Mr. Leonard S. Dunk, Jr., as manager of Pacific Coast sales effective November 1, 1956.

Mr. Dunk will make his headquarters at the company office located at 25 Hawthorne Street, San Francisco, California.

Wall Rope Works, Inc., also manufactures nylon and dacron rope, twines and oakum and packing. In addition to warehouse stocks located in San Francisco, Wall maintains rope stocks in Seattle, Portland, Los Angeles and San Diego."

Edo Announces Formation Of Canadian Subsidiary

Formation of Edo (Canada) Ltd., a wholly owned subsidiary, was announced today by Noel B. McLean, president of the Edo Corporation, College Point, L. I., New York, manufacturers of electronic equipment and aircraft components.

The company has purchased property near Cornwall, Ontario, and plans to erect a medium-size production facility by September, 1957.

Edo in the past 10 years has become increasingly engaged in the development of all forms of sonar and related equipment, including radar and loran.

New Titles Named By Twin Disc Clutch Co.

N. F. Adamson, Vice President—Sales, of the Twin Disc Clutch Company, Racine, Wisconsin, has announced two appointments in the General Sales Department.

R. A. Harmon has been appointed Manager—District Sales, moving up from District Sales Supervisor.

Paul J. Demet has ben appointed Dealer Sales Supervisor. His responsibilities include promoting product sales through authorized dealers; establishing dealers in the United States, Canada, Mexico and U. S. Possessions; training dealer personnel; warehouse stock scheduling; and processing of dealer orders.

Former Nordberg Service Manager Joins Universal

Norman Wuotila, formerly manager of the parts and service department of the gasoline marine engine division of the Nordberg Manufacturing Company has joined the Universal Motor Company staff of the Nordberg gasoline marine engine division.

LEONARD S. DUNK, Jr.

Small Diesel Engines Detailed In New MARC Catalogue

A new catalogue of small diesels has been issued by American MARC, Inc., of 1601 West Florence Ave., Inglewood, California. Last year this company purchased the diesel engine division of the well-known Hallett Manufacturing Company and are producing an improved line of Hallett low-horsepower, lightweight air-cooled engines.

The new 30-page catalogue gives full data and specifications of the complete line of American MARC-Hallett engines; and in addition, contains much information of interest concerning small Diesels in general.

Spearheading the long line of engines and power units packages for various applications are American MARC's "Big 4" —Models AC-1 and AC-2, 5½ and 13 BHP air-cooled Diesels, and Models WC-1 and WC-2, the water-cooled equivalents.

Complete specifications are given on twenty basic American MARC prime movers and conversions, including portable and stationary generating plants for home, farm, boat, industrial, and military use; centrifugal pumping plants of various capacities; marine units, and diesel engines for many other purposes. Also included are full installation data and profile drawings, perforcance curves, complete lists of available attachments and accessories, and a detailed discussion of air-cooled small diesels (American MARC is the largest manufacturer of air-cooled diesels in the United States).

Pacific Marine Supply Now Stocks Albina Line

Albina Engine & Machine Works of Portland, Oregon, has named Pacific Marine Supply Co. of Seattle to be the stocking distributor in Washington and Alaska for the Albina line of products.

Stock carried at PMS will consist mainly of utility power take-offs, windlasses and winches.

"Our efforts will be directed toward continuing good deliveries and to betterment of this service by having the product on our shelves," says Donn W. Cripe of the Industrial Division at PMS.

Paul Hiller Adds Crowell Line

Paul W. Hiller's organization has taken on the distribution for Crowell Designs, Inc., for Southern California. This company has such products as automatic water pressure systems, bilge pumps, rudder indicators, etc.

As a dealer, Newport Supply Company of Newport Beach, California, is selling the Crowell items through Mr. Hiller. A Crowell "Helm" was recently installed on the commercial sportfishing boat, Sea Sport, out of Pierpoint Landing.

Sid White, long a member of Industrial and Marine Supply, has joined the staff of the Hiller organization.

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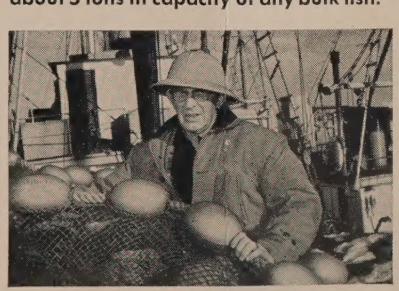

As fishing supervisor, Capt. Clark says, "Ultimately the entire fleet will be equipped with Spongex floats."

Since the oval floats have been in service, B. F. Goodrich has developed a cylindrical shaped float in 12 sizes from 3" x 1½" to 6" x 7½". Generally, these floats are believed to be even better than the original ones.

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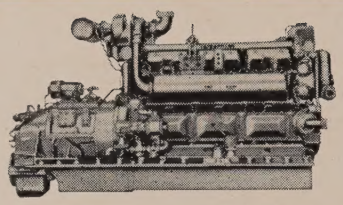
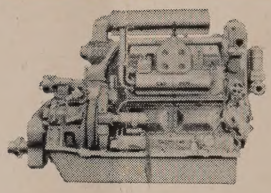


D397 **500 HP**
with Turbocharger **continuous**

Also available as a Roots blown or naturally aspirated engine or as an electric set. Starting system: air, electric or gasoline.



D375 **300 HP**
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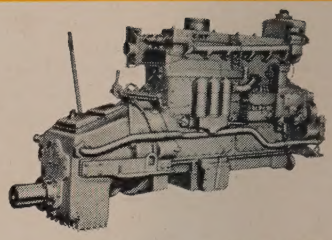

D342 **150 HP**
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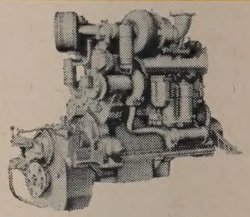
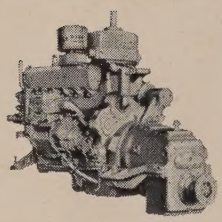


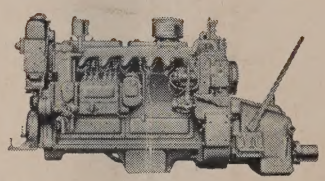
D337 **182 HP**
with Turbocharger **continuous**

Also available as an electric set. Starting system: air, electric or gasoline.



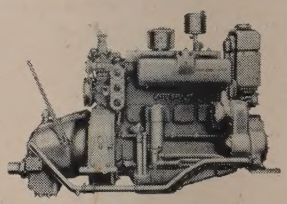
D326 **134 HP**
naturally aspirated **continuous**

Also available as an electric set. Starting system: air, electric or gasoline.



D318 **83 HP**
naturally aspirated **continuous**

Also available as an electric set. Starting system: air, electric or gasoline.



D315 **56 HP**
naturally aspirated **continuous**

Also available as an electric set. Starting system: air, electric or gasoline.

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These units you see here incorporate the latest developments in diesel power—a modern, heavy-duty line of engines and a marine gear that offers you exactly the right package to meet your requirements. Whether it's the smallest or the largest, each is ruggedly built to run without tinkering and for a long life of low-cost operation. Compact Cat Marine Engines are available up to 500 HP (continuous) and Marine Electric Sets up to 350 KW. Your Caterpillar Dealer backs his products with dockside service around the clock. For complete details about the modern, heavy-duty marine line, see him!

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